

**US Army Corps of Engineers Sacramento District
Hawthorne Army Depot
Hawthorne, Nevada**

Decision Document

**Solid Waste Management Unit H05
Depot Laundry Washout**



June 2001

TETRA TECH
180 Howard Street, Suite 250
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ENVIRONMENTAL PROTECTION

Decision Document SWMU H05
June 2001

The selected remedy is protective of human health and the environment. It has been shown that a complete pathway to human health and the environment does not exist, and there is no potential for an exposure pathway to be completed in the future.

US Army

19 NOV 2001

Anne L Davis

Anne L. Davis
Lieutenant Colonel, US Army
Commanding

State of Nevada

14 JAN 2002

Paul Liebendorfer

Paul Liebendorfer
Chief, Bureau of Federal Facilities

**Decision Document for Closure of
Solid Waste Management Unit H05
Hawthorne Army Depot
Hawthorne, Nevada**

1.0 INTRODUCTION

This decision document describes the rationale for the proposed closure of solid waste management unit (SWMU) H05, the site adjacent to a former laundry southwest of the north magazine area at the Hawthorne Army Depot (HWAD), Hawthorne, Nevada. Tetra Tech, Inc. (Tt) prepared this document with the help of the US Army Corps of Engineers, Sacramento District (USACE) and HWAD for the Nevada Department of Environmental Protection (NDEP), the lead regulatory agency for environmental issues at HWAD.

Tt and Ecology and Environment (E&E) performed remedial investigations and groundwater monitoring at the HWAD from 1993 through 1999, primarily at SWMUs designated by the Army and the NDEP. The purpose of the sampling was to determine the extent and degree of environmental impacts, if any, associated with activities performed at each SWMU. The primary goal of the investigation was to assess the environmental impacts and to report the findings, to present conclusions, and to recommend remediation, if necessary.

With guidance from the NDEP, Tt established basewide proposed closure goals (PCGs) for soil as acceptable levels so that we could recommend SWMU closure and to assist in directing the investigative efforts toward those SWMUs where the target analytes were of greatest concern. Also, we established HWAD-specific groundwater action levels as acceptable concentrations to determine if further action would be required for analytes of concern in the groundwater. We used these PCGs and action levels to guide the investigations and for comparison with the detected analytes in this report (see Appendix A).

2.0 SITE HISTORY

SWMU H05 is approximately 100 feet north of the intersection of US Highway 95 and Thorne Road (Figure 1-1). This SWMU is approximately 175 feet long by 60 feet wide and adjacent to a former laundry (Figure 1-2). The existing features at the SWMU include a concrete foundation, a cement sump, and the surrounding area northeast of the former laundry, where wastewater from the facility may have been released. No known releases have been documented at SWMU H05, and site-specific disposal practices are not well known because no records were found documenting the activities at the laundry. Interviews with HWAD personnel revealed that primarily work clothes for HWAD personnel were washed at the laundry, and these work clothes were known to contain explosives and also may have contained other chemicals from the base operations. HWAD personnel also revealed that the more recent use of the facility was a dry cleaning facility that likely used solvents to clean clothes.

Because the facility has been dismantled, the waste stream inside the facility is not known; however, the foundation contains two catch basins that appear to have collected wastewater from the laundry. These basins discharged the wastewater through underground drainlines into the sump at SWMU H05. The sump was used to collect sediment prior to discharging the wastewater to an underground sanitary sewer line.

During Tt's inspection, the soils near the sump appeared to be stained with 2,4,6-trinitrotoluene (TNT), and the area was littered with buttons, apparently from the work clothes. It appeared that wastewater or sediment might have been released by allowing the sump to overflow, by cleaning out the sump and releasing the water and sediment to the ground around the sump, or by directly releasing wastewater from the nearby laundry.

The USACE, HWAD, and the NDEP agreed to define the boundaries of each SWMU using annotated monuments and survey pins. As part of our field investigation, Tt surveyed SWMU H05 and constructed a survey monument. A brass survey pin on the monument designates it as HWAAP-110-1996 and includes the SWMU number H05. Two corner pins were set and surveyed to define the SWMU boundary, with the monument as the west corner. The location of these corner markers and the SWMU boundary are shown on Figure 1-2. Survey data is presented in Appendix B.

During Tt's 2000 annual groundwater monitoring (Tt 2001b), we measured the depth to groundwater at approximately 110 feet below ground surface (bgs) in monitoring wells IRPMW45 through IRPMW48 at the adjacent SWMU H04. These wells are less than 1,000 feet northeast of SWMU H05 in an area of relatively flat groundwater gradient; therefore, the groundwater beneath this SWMU is at a depth of approximately 110 feet bgs.

3.0 SITE CONDITIONS

During Tt's inspection of SWMU H05, the soils near the sump appeared to be stained with TNT, and the area was littered with buttons, apparently from work clothes. It appeared that wastewater and sediment may have been released at SWMU H05 by allowing the sump to overflow, by cleaning out the sump and releasing the water and sediment to the ground around the sump, or by directly releasing the wastewater from the nearby laundry. We also observed standing water from rainfall and sediment in the bottom of the sump and noted that the cover on the sump was missing some of its boards, causing a physical hazard at the site.

Based on the potential chemicals that may have been associated with the work clothes washed at the nearby facility and on the potential chemicals that may have been used during the laundry operations, the investigation target analytes were determined to be metals, explosives, volatile organic compounds (VOCs), and semivolatile organic compounds (SVOCs).

4.0 INVESTIGATIONS

Surveys

During our 1997 remedial investigation of SWMU H05, Norcal Geophysical Consultants, Inc., of Petaluma, California, performed a surface geophysical survey. Surface geophysical surveys commonly are conducted during soil investigations at wastewater disposal sites to locate buried drainlines that carried the wastewater. For this investigation, the surface geophysical survey included a surface ground penetrating radar survey and an electromagnetic line location survey. These surveys were conducted simultaneously over the quarter of an acre area at this SWMU.

Soil and Sediment Sampling

In 1997, we collected nine surface and near-surface soil samples and 13 subsurface soil samples from five soil borings. We collected eight surface and near-surface soil samples (H05-SS01-1-S through H05-SS08-1-S) and one split duplicate sample (H05-SS05-2-S) to assess the potential impacts to the surface of SWMU H05 from releases of wastewater and sediment from the laundry. These samples were collected at depths of approximately six to 12 inches bgs throughout the SWMU. We drilled five soil borings (SB01 through SB05), using the hollow-stem auger drilling and sampling method. The locations of these borings were selected based on the geophysical surveys and were adjacent to the sump and along the drainlines that carried the wastewater from the facility to the sump and from the sump to the sanitary sewer system. We collected 13 subsurface soil samples, including two collocated duplicate samples, from fine-grained intervals of the cores from these borings, at depths ranging from 1.5 to 11.5 feet bgs. Also, we collected one sludge sample from the sump beneath the standing water to characterize the wastes that were discharged from the former laundry facility.

Because the suspected surface release of explosives-laden wastewater likely would have the greatest impact on the surface and near-surface soils, only the shallow soil samples were screened for explosives to assure a safe shipping level. The screening used the colorimetric test kits by US Environmental Protection Agency (USEPA) Method 8510 for cyclotrimethylenetrinitramine (RDX) and USEPA Method 8515 for TNT. The sediment sample collected from the sump was saturated with water and was safe to ship without screening. All of the screening values were less than the safe shipping concentrations for explosives of 40,000 mg/kg.

All surface, near-surface, and subsurface soil samples and the sediment sample were analyzed for metals, explosives, and SVOCs by the Applied Physics and Chemistry Laboratory in Chino, California, using standard USEPA methods. VOCs were not expected to persist in the surface and near-surface soils at HWAD; therefore, the laboratory analyzed only the subsurface soil samples and the sediment sample for VOCs using standard USEPA methods.

Although only trace concentrations of four VOCs and eight SVOCs were found in the subsurface soil samples collected in 1997, we recommended further investigation of these analytes because of their suspected use during the dry cleaning operations and because of their elusive nature during remedial investigations.

In May 1998, we conducted a soil gas survey at SWMU H05, using the Gore Sorber technology of placing 23 sorbent modules in the ground for several weeks and allowing the modules to accumulate volatile chemicals from the soil gas over time. Then we removed the modules and had them analyzed for VOCs as chemicals of concern to indicate the types and magnitudes of these analytes in the soil gas.

Groundwater Sampling

Based on the calculated groundwater gradient direction at the adjacent SWMU H04, monitoring wells IRPMW45, IRPMW46, IRPMW47, and IRPMW48 are downgradient of SWMU H05 and can be used to assess potential groundwater impacts from activities at this SWMU. Appendix C includes tables by analytical method of the groundwater samples collected from these four wells during the most recent four groundwater sampling events in 2000 (Tt 2001b).

5.0 INVESTIGATION RESULTS

Surveys

Surface ground-penetrating radar and an electromagnetic line location survey identified three underground drainlines from the catch basins in the laundry facility. These three lines joined before entering the sump at SWMU H05. An underground drainline exited the sump and connected to the HWAD sanitary sewer lines near the northeast corner of the SWMU. These drainlines and the sump were used to dispose of the wastewater from the former laundry. Potential releases of this wastewater and sediment along these lines and near the sump could have contained target analytes that were released to SWMU H05. We used the results of these surveys to select the five soil boring locations.

The soil gas survey found the highest concentrations tetrachloroethene (PCE) and trichloroethene (TCE) in the module near the sump. PCE and TCE are common constituents in dry cleaning solvents. The results of this survey suggested that wastewater from the laundry with PCE and TCE was released near the sump and that it affected the soils in this area, even though these analytes were not detected in the soil samples collected during the 1997 investigation. Based on this survey, we recommended that the sump and the adjacent soils be removed and disposed of to mitigate the source area where VOCs appeared to have affected the environment. This interim remedial action also would mitigate the potential release of the sediment in the sump that contained elevated concentrations of metals and would eliminate the physical hazard of a partially open sump with an inadequate cover.

Soil and Sediment Samples

The metals barium, cadmium, total chromium, lead, and mercury were found in the sediment sample collected from the sump, at concentrations greater than their respective maximum expected background levels, indicating that these metals were at elevated concentrations in the wastewater released from the former laundry. Only cadmium and lead were found at elevated concentrations in the surface soils at this SWMU, and no elevated concentrations of metals were found in the subsurface soils samples collected along the drainlines and near the sump. Only cadmium, total chromium, and lead were found in the sediment sample at concentrations greater than their respective PCGs; the concentrations of these metals in the surface soil samples were

not greater than the PCGs. Therefore, it appears that the wastewater from the former laundry could have contained elevated concentrations of metals, and this wastewater has affected the surface soils at SWMU H05 with cadmium and lead, but only the sediment in the sump contains concentrations of metals that would require remediation. Although this sediment is contained in the sump and is not exposed to the surface, it contains cadmium, total chromium, and lead at concentrations greater than their respective PCGs. This sediment should be removed and disposed of to eliminate the potential for future releases of elevated concentrations of these metals to the environment.

No explosives were found in the sediment sample or in any of the soil samples collected from SWMU H05. Although the wastewater from the laundry reportedly contained explosives from the work clothes, the concentrations of these explosives in the wastewater and sediment released to SWMU H05 appears to have been very low. Also, most of the wastewater appears to have been released to the sanitary sewer through the sump and little of the wastewater and sediment was released to this SWMU. Therefore, there appears to be no soil at SWMU H05 affected with explosives that would require remediation.

The risk evaluation performed for the surface soils determined that the estimated carcinogenic risk for a full-time on-site worker was below the USEPA's acceptable risk threshold and that the estimated noncarcinogenic health indicator was significantly below 1.0 as well (Tt 1999). Also, the concentrations of lead in the soil, which was evaluated separately, do not appear to represent an exposure risk. Therefore, the surface soils, which were evaluated as the primary exposure risk media to a full-time occupational presence, do not appear to represent an exposure risk.

Groundwater

During Tt's 2000 quarterly groundwater monitoring (Tt 2001b), all four wells at SWMU H04, downgradient from SWMU H05, were sampled for nitrogen compounds only during the second, third, and fourth quarter. These 12 groundwater samples, and one duplicate sample, contained nitrate + nitrite at concentrations from 0.72 micrograms per liter ($\mu\text{g/l}$) to 2.35 $\mu\text{g/l}$, with 12 of these 13 concentrations greater than the HWAD groundwater action level of 1.0 $\mu\text{g/l}$. Although these nitrate and nitrite concentrations exceed the action level, nitrogen compounds and explosives were not found in the soil samples collected at SWMU H05; therefore, the source of the elevated concentrations of nitrate + nitrite in the groundwater samples at SWMU H04 is not likely from the operations at SWMU H05. Also, there are no downgradient receptors, such as producing wells, that would pose an exposure risk from these nitrogen compounds in the groundwater; therefore, the nitrogen compounds in the groundwater in this vicinity do not appear to be an environmental issue with regard to SWMU H05.

All four wells at SWMU H04 were sampled for metals only during the first quarter of 2000 (Tt 2001b). All of the metals concentrations in these groundwater samples were less than their respective action level, except for arsenic. All four arsenic concentrations (53.5 $\mu\text{g/l}$ to 136 $\mu\text{g/l}$) were greater than the arsenic groundwater action level of 1.0 $\mu\text{g/l}$. Arsenic is a soluble metal that occurs naturally in the Walker Valley soils and is ubiquitous at elevated concentrations in most groundwater wells at HWAD. Also the metals found at elevated concentrations at SWMU H05 were barium, cadmium, total chromium, lead, and mercury, with none of these concentrations

exceeding their respective PCGs in soils. Therefore, the elevated concentrations of arsenic found in the groundwater samples collected downgradient from SWMU H05 do not appear to be from activities at this SWMU, and the elevated concentrations of the metals found at SWMU H05 do not appear to have affected the groundwater.

Five VOCs and one SVOC were found in the groundwater samples collected from the wells at SWMU H04 during the 2000 quarterly groundwater monitoring (Tt 2001b). These compounds were benzene (0.4 µg/l), bromodichloromethane (0.4 µg/l to 1.0 µg/l), butyl benzyl phthalate (2.0 µg/l to 9.0 µg/l), carbon tetrachloride (0.4 µg/l to 2.0 µg/l), chloroform (2.0 µg/l to 8.2 µg/l), and methylene chloride (0.4 µg/l to 1.0 µg/l). None of these concentrations were greater than their respective action levels; therefore, VOCs and SVOCs in the groundwater are not an environmental issue in the vicinity of SWMU H05.

With the exception of butyl benzyl phthalate, the analytes that were found in the groundwater samples downgradient of SWMU H05 were not found in the soil samples, indicating that this SWMU is not the source of these analytes in the groundwater. Also, the VOCs PCE and TCE that were found in the soil gas samples at SWMU H05 were not found in the downgradient groundwater samples; therefore, VOCs from SWMU H05 do not appear to have affected the groundwater.

No explosives compounds were found in any of the groundwater samples collected from the wells downgradient of SWMU H05 during the 2000 quarterly groundwater monitoring (Tt 2001b). Also, no explosives were found in the soil samples at this SWMU; therefore, explosives compounds in the groundwater are not an environmental issue at this SWMU.

6.0 REMEDIATION

Based on the soil gas survey that reported high concentrations of PCE and TCE adjacent to the sump at SWMU H05, we removed the sump, its contents, and the soils adjacent to the sump that might have been affected. Even though these analytes were not found in the groundwater samples collected downgradient of this SWMU, this interim remedial action reduced the potential for future groundwater impacts from these compounds. Also, the sediment with the elevated concentrations of metals was removed and disposed of off-site, the physical hazard of a partially covered sump was eliminated. The concrete from the sump was pressure washed and the concrete was disposed of as nonhazardous construction debris. We used field screening to direct the soil sampling toward a high bias and collected five soil samples from the sidewalls and the bottom of the excavation (Tt 2001a). The excavation was backfilled with clean soil imported from HWAD's borrow area near Loading Dock 1. We had the soil samples analyzed for VOCs.

7.0 REMEDIATION RESULTS

The sediment in the sump, which was known to contain elevated concentrations of metals, was removed and containerized in 55-gallon drums. Because of the metals concentrations in this sediment and because it potentially contained concentrations of explosives and VOCs, the sediment was disposed of off-site by Safety-Kleen as a low-level hazardous waste (see Appendix

D). The walls and the floor of the sump were steam cleaned, and spent steam-cleaning water was containerized and disposed of with the sediment as a low-level hazardous waste; therefore, we accomplished the objective of removing the potential for the sediment in the sump from being released to the environment.

The field photoionization detector (PID) readings collected near the concrete detected no VOC concentrations above the ambient background level; therefore, the concrete sump was removed, demolished, and disposed of as nonhazardous waste construction debris, and the open excavation was backfilled with clean soil. We accomplished the objective of removing the open sump as a physical hazard from the SWMU.

Our inspection of the subsurface soil adjacent to the sump revealed no evidence of contamination. All of the field screening PID readings from the headspace analyses of the excavated soil were reported at concentrations of 0.0 part per million (ppm) above background. Methylene chloride was the only VOC detected in the five soil samples collected from the excavation, and all of these concentrations were low. PCE and TCE were not detected in any of the excavation soil samples; therefore, the interim remedial action of removing the soils that potentially contained VOCs was successful, and we accomplished the objective of removing these soils as a potential source of contamination to the groundwater.

8.0 PUBLIC INVOLVEMENT

It is US Department of Defense and Army policy to involve the local community throughout the investigation process at an installation. To initiate this involvement, HWAD has established and maintains a repository at the local public library, which includes final copies of all past studies and other documents regarding environmental issues at HWAD. As future environmental documents are made available to HWAD, the repository will be updated.

HWAD has solicited community participation to establish a restoration advisory board (RAB). To date there has been insufficient response, and HWAD has not formed a RAB. HWAD has held open houses to inform the public of on going environmental issues. HWAD will continue to solicit community involvement and will establish a RAB should there be sufficient community interest be obtained.

9.0 CONCLUSIONS

Our investigations at SWMU H05 found three potential environmental issues:

- Elevated concentrations of metals in the sediment of the sump that could be released to the environment;
- Concentrations of PCE and TCE in the soil gas near the sump that could indicate concentrations of these analytes in the subsurface soil that could affect the groundwater, and;
- A physical hazard of a partially covered sump.

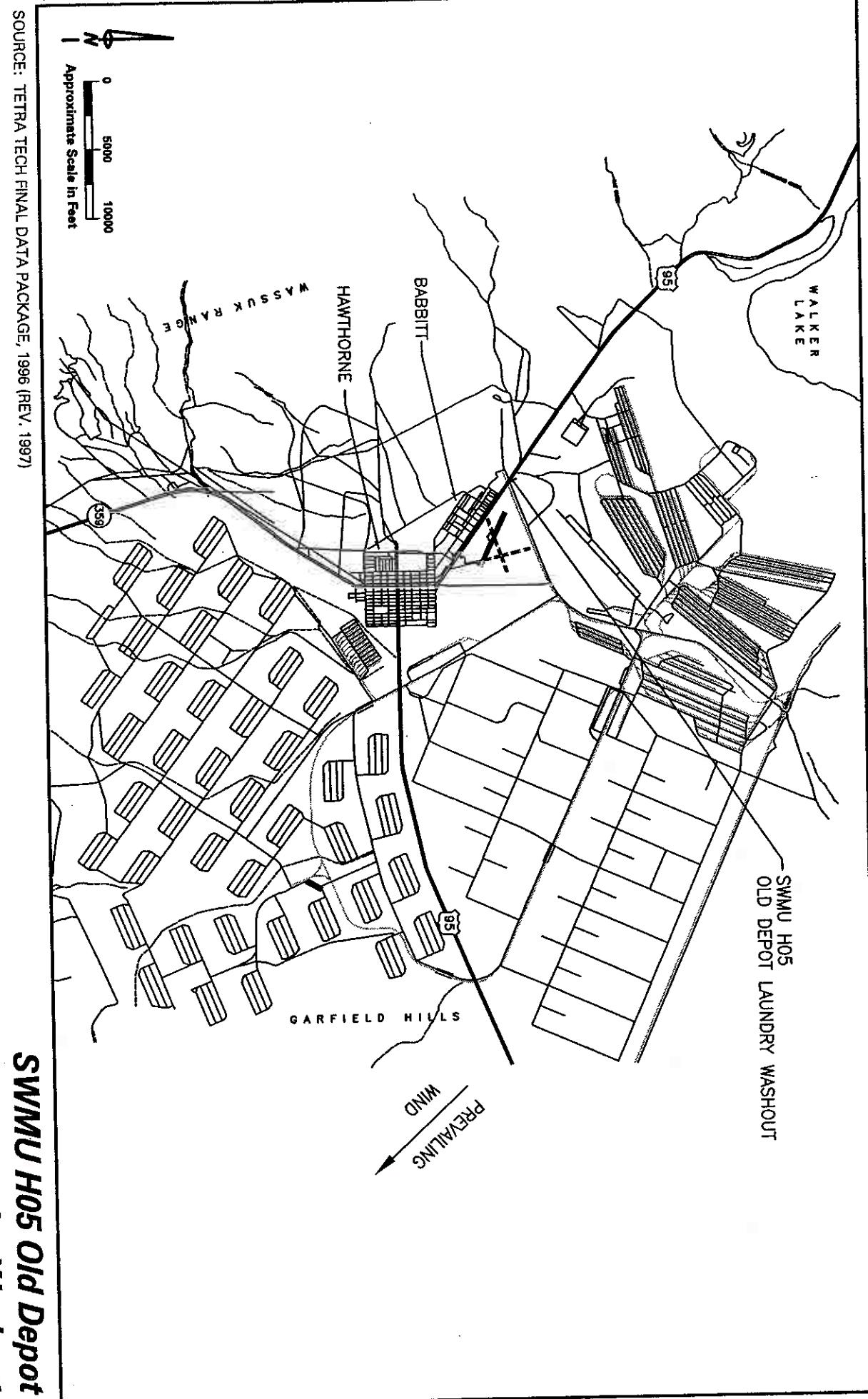
By removing and disposing of the sump, its contents, and the adjacent soil, and by backfilling the excavation with clean soil, these three potential environmental issues have been mitigated.

The other analytes of concern at SWMU H05 were not found in the soil samples from this SWMU at concentrations that would require remediation. Also, the groundwater downgradient of this SWMU did not appear to be affected by the analytes found at this SWMU; therefore, we recommend no further investigation of this SWMU and that SWMU H05 be closed with no restrictions.

10.0 REFERENCES

- Tetra Tech, Inc. (Tt). 1999. Final Remedial Investigation Report, Solid Waste Management Unit H05, Depot Laundry Washout, Hawthorne Army Depot, Hawthorne, Nevada. February 1999.
- _____. 2001a. Remedial Investigation Report, Solid Waste Management Unit H05, Depot Laundry Washout, Hawthorne Army Depot, Hawthorne, Nevada. April 2001.
- _____. 2001b. 2000 Annual Groundwater Monitoring Report, Hawthorne Army Depot, Hawthorne, Nevada. May 2001.
- _____. 2001. Draft Remedial Investigation Report Addendum, Solid Waste Management Unit H05, Depot Laundry Washout, Hawthorne Army Depot, Hawthorne, Nevada. April 2001.

FIGURES



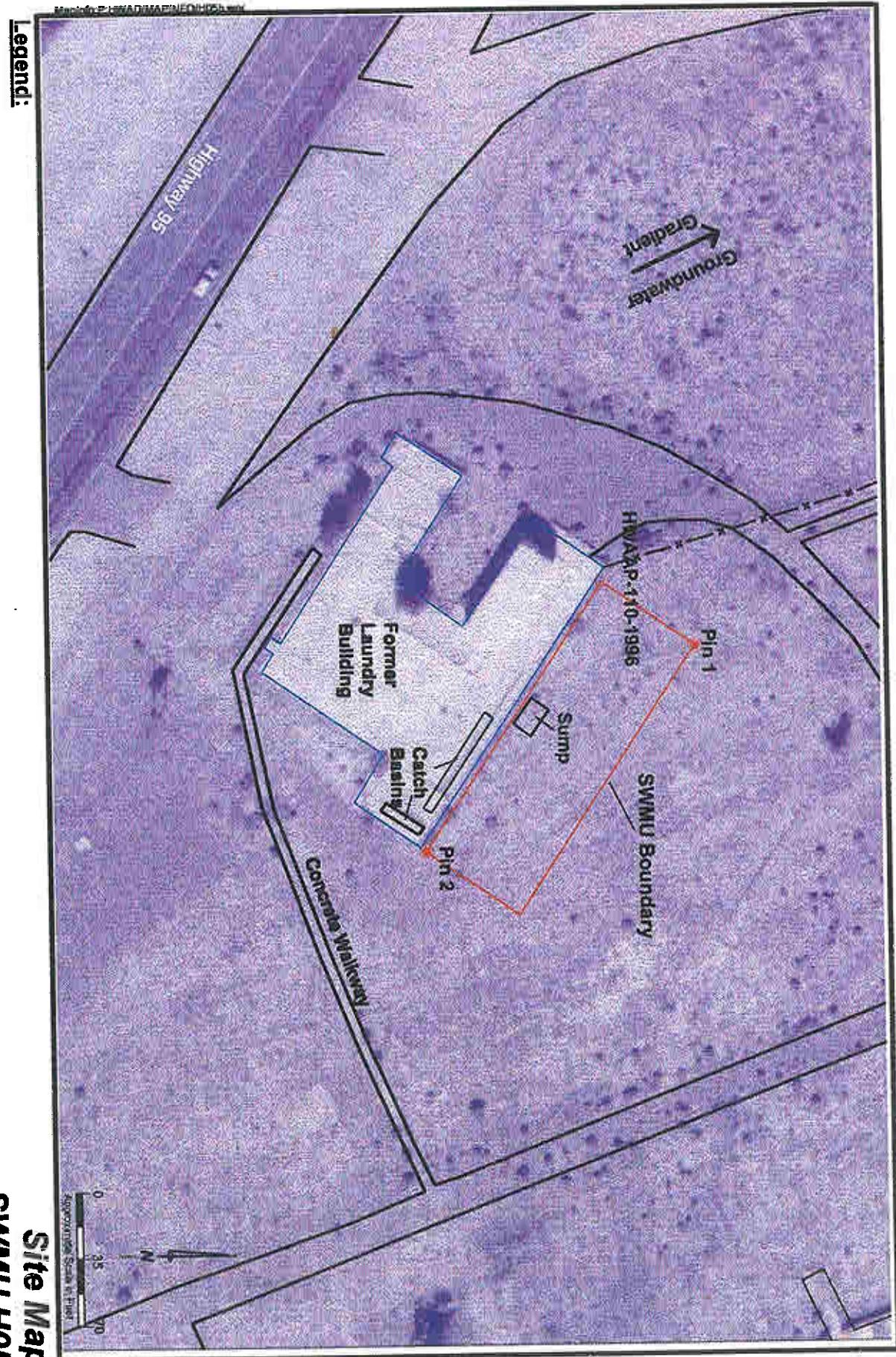
SWMU H05 Old Depot Laundry Washout

Hawthorne Army Depot
Hawthorne, Nevada

Figure 1-1

Site Map
SWMU H05
Depot Laundry Washout
Hawthorne Army Depot
Hawthorne, Nevada

Figure 1-2



APPENDIX A

PROPOSED CLOSURE GOALS

Proposed Closure Goals
Hawthorne Army Depot
Hawthorne, Nevada

Constituent of Concern	Chemical Classification	Carcinogenic (C) or Non-carcinogenic (NC)	HWAD Proposed Closure Goals for Soil (mg/kg)	HWAD Proposed Closure Goal Source
Nitrate	Anion	NC	128,000	Calculated Subpart S ^a
2-Amino-dinitrotoluene	Explosive	NC	-	NA ^b
4-Amino-dinitrotoluene	Explosive	NC	-	NA
1,3-Dinitrobenzene	Explosive	NC	8	Calculated Subpart S
2,4-Dinitrotoluene	Explosive	NC	160	Calculated Subpart S
2,6-Dinitrotoluene	Explosive	NC	80	Calculated Subpart S
HMX	Explosive	NC	4,000	Calculated Subpart S
Nitrobenzene	Explosive	NC	40	Calculated Subpart S
Nitrotoluene (2-, 3-, 4-)	Explosive	NC	800	Calculated Subpart S
RDX	Explosive	NC	64	Calculated Subpart S
Tetryl	Explosive	NC	800	Calculated Subpart S
1,3,5-Trinitrobenzene	Explosive	NC	4	Calculated Subpart S
2,4,6-Trinitrotoluene	Explosive	C	233	Calculated Subpart S
Aluminum	Metal	NC	80,000	Calculated Subpart S
Arsenic (cancer endpoint)	Metal	C & NC	30	Background ^c
Barium and compounds	Metal	NC	5,600	Calculated Subpart S
Beryllium and compounds	Metal	C	1	Background
Cadmium and compounds	Metal	NC	40	Calculated Subpart S
Chromium III and compounds	Metal	NC	80,000	Calculated Subpart S
Lead	Metal	NC	1000	PRG ^d
Mercury and compounds (inorganic)	Metal	NC	24	Calculated Subpart S
Selenium	Metal	NC	400	Calculated Subpart S
Silver and compounds	Metal	NC	400	Calculated Subpart S
Acenaphthene	PAH	NC	4,800	Calculated Subpart S
Benzo[a]anthracene	PAH	C	0.96	Calculated Subpart S
Benzo[a]pyrene	PAH	C	0.10	Detection Limit ^e
Benzo[b]fluoranthene	PAH	C	0.96	Calculated Subpart S
Benzo[k]fluoranthene	PAH	C	10	Calculated Subpart S
Chrysene	PAH	C	96	Calculated Subpart S
Dibenz[ah]anthracene	PAH	C	0.96	Calculated Subpart S
Fluoranthene	PAH	NC	3,200	Calculated Subpart S
Fluorene	PAH	NC	3,200	Calculated Subpart S
Indeno[1,2,3-cd]pyrene	PAH	C	-	NA
Naphthalene	PAH	NC	3,200	Calculated Subpart S
Pyrene	PAH	NC	2,400	Calculated Subpart S
Total Petroleum Hydrocarbons as Diesel (TPH-d)	PAH	C	100	NDEP Level Clean-up ^f
Polychlorinated biphenyls (PCBs)	PCBs	C	25	TSCA ^g
Bis(2-ethylhexyl)phthalate (DEHP)	SVOC	C	1,600	Calculated Subpart S
Bromoform (tribromomethane)	SVOC	C	89	Calculated Subpart S
Butyl benzyl phthalate	SVOC	NC	16,000	Calculated Subpart S
Dibromochloromethane	SVOC	C	83	Calculated Subpart S
Dibutyl-phthalate	SVOC	NC	8,000	Calculated Subpart S
Diethyl phthalate	SVOC	NC	64,000	Calculated Subpart S
Phenanthrene	SVOC	-	-	NA
Phenol	SVOC	NC	48,000	Calculated Subpart S

Proposed Closure Goals
Hawthorne Army Depot
Hawthorne, Nevada

Constituent of Concern	Chemical Classification	Carcinogenic (C) or Non-carcinogenic (NC)	HWAD Proposed Closure Goals for Soil (mg/kg)	HWAD Proposed Closure Goal Source
Acetone	VOC	NC	800	Calculated Subpart S
Anthracene	VOC	NC	24,000	Calculated Subpart S
Benzene	VOC	C	24	Calculated Subpart S
Bis(2-chloroisopropyl)ether	VOC	C	3,200	Calculated Subpart S
Bromomethane	VOC	NC	112	Calculated Subpart S
Carbon tetrachloride	VOC	C	5	Calculated Subpart S
Chlorobenzene	VOC	NC	1,600	Calculated Subpart S
Chloroform	VOC	C	115	Calculated Subpart S
Chloromethane	VOC	C	538	Calculated Subpart S
Dibromomethane	VOC	C	0.008	Calculated Subpart S
1,2-Dichlorobenzene	VOC	NC	7,200	Calculated Subpart S
1,4-Dichlorobenzene	VOC	C	18,300	Calculated Subpart S
Dichlorodifluoromethane	VOC	C	16,000	Calculated Subpart S
Ethylbenzene	VOC	NC	8,000	Calculated Subpart S
Methylene bromide	VOC	NC	800	Calculated Subpart S
Methylene chloride	VOC	C	4,800	Calculated Subpart S
2-Methylnaphthalene	VOC	-	-	NA
1,1,2,2-Tetrachloroethane	VOC	C	35	Calculated Subpart S
Tetrachloroethylene (PCE)	VOC	C & NC	800	Calculated Subpart S
Toluene	VOC	NC	16,000	Calculated Subpart S
1,1,1-Trichloroethane	VOC	NC	7,200	Calculated Subpart S
Trichloroethylene (TCE)	VOC	C & NC	480	Calculated Subpart S
Trichlorofluoromethane	VOC	NC	24,000	Calculated Subpart S
1,2,3-Trichloropropane	VOC	C	480	Calculated Subpart S
Vinyl chloride	VOC	C	0.37	Calculated Subpart S
Xylene Total (m-, o-, p-)	VOC	NC	160,000	Calculated Subpart S
2,3,7,8-TCDD	Dioxin	C	0.000005	Calculated Subpart S

^a RCRA 55 FR 30870

^b Not available

^c Highest background concentration detected in 50 background soil samples

^d Smucker, Stanford J. USEPA Region IX, Preliminary Remedial Goals, Second Half, Sep. 1995

^e Method detection limit for Volatile Organic Compounds by EPA Method 8260 or

Semi-Volatile Organic Compounds analyzed by EPA Method 8270

^f Nevada Division of Environmental Protection

^g Cleanup level for PCB spills in accordance with Toxic Substance and Control Act Spill Policy Guidelines 40 CFR 761

HWAD - Groundwater Action Level

Casno	Analyte	Action level	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.43	ug/L
71-55-6	1,1,1-Trichloroethane	200	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.055	ug/L
79-00-5	1,1,2-Trichloroethane	5	ug/L
75-34-3	1,1-Dichloroethane	810	ug/L
75-35-4	1,1-Dichloroethene	7	ug/L
96-18-4	1,2,3-Trichloropropane	0.0016	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	11	ug/L
120-82-1	1,2,4-Trichlorobenzene	70	ug/L
95-63-6	1,2,4-Trimethylbenzene	12	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.2	ug/L
106-93-4	1,2-Dibromoethane (EDB)	0.05	ug/L
95-50-1	1,2-Dichlorobenzene	600	ug/L
107-06-2	1,2-Dichloroethane	5	ug/L
78-87-5	1,2-Dichloropropane	5	ug/L
528-29-0	1,2-Dinitrobenzene	15	ug/L
122-66-7	1,2-Diphenylhydrazine	0.084	ug/L
99-35-4	1,3,5-Trinitrobenzene	1100	ug/L
541-73-1	1,3-Dichlorobenzene	17	ug/L
99-65-0	1,3-Dinitrobenzene	3.7	ug/L
106-46-7	1,4-Dichlorobenzene	75	ug/L
98-82-8	1-Methylethylbenzene	19	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	1100	ug/L
1746-01-6	2,3,7,8-TCDD	0.00003	ug/L
93-76-5	2,4,5-T	370	ug/L
93-72-1	2,4,5-TP (Silvex)	50	ug/L
95-95-4	2,4,5-Trichlorophenol	3700	ug/L
88-06-2	2,4,6-Trichlorophenol	6.1	ug/L
118-96-7	2,4,6-Trinitrotoluene	2.2	ug/L
94-75-7	2,4-D	70	ug/L
94-82-6	2,4-DB	290	ug/L
120-83-2	2,4-Dichlorophenol	110	ug/L
105-67-9	2,4-Dimethylphenol	730	ug/L
51-28-5	2,4-Dinitrophenol	73	ug/L
121-14-2	2,4-Dinitrotoluene	73	ug/L
606-20-2	2,6-Dinitrotoluene	37	ug/L
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.099	ug/L
91-58-7	2-Chloronaphthalene	490	ug/L
95-57-8	2-Chlorophenol	38	ug/L
95-49-8	2-Chlorotoluene	120	ug/L
95-48-7	2-Methylphenol	1800	ug/L
88-74-4	2-Nitroaniline	2.2	ug/L
91-94-1	3,3-Dichlorobenzidine	0.15	ug/L
TT007	3/4-Methylphenol(m/p-Cresol)	180	ug/L
99-08-1	3-Nitrotoluene	370	ug/L
72-54-8	4,4-DDD	0.28	ug/L
72-55-9	4,4-DDE	0.2	ug/L
50-29-3	4,4-DDT	0.2	ug/L
1946-51-0	4-Amino-2,6-Dinitrotoluene	0.099	ug/L
106-47-8	4-Chloroaniline	150	ug/L
106-44-5	4-Methylphenol	180	ug/L

HWAD - Groundwater Action Level

Casno	Analyte	Action level	Units
99-99-0	4-Nitrotoluene	370	ug/L
83-32-9	Acenaphthene	370	ug/L
67-64-1	Acetone	610	ug/L
98-86-2	Acetophenone	0.042	ug/L
309-00-2	Aldrin	0.004	ug/L
319-84-6	alpha-BHC	0.011	ug/L
7429-90-5	Aluminum	37000	ug/L
62-53-3	Aniline	12	ug/L
120-12-7	Anthracene	1800	ug/L
12674-11-2	Aroclor-1016	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	ug/L
11096-82-5	Aroclor-1260	0.5	ug/L
7440-38-2	Arsenic	50	ug/L
7440-38-2d	Arsenic, Dissolved	50	ug/L
7440-39-3	Barium	2000	ug/L
7440-39-3d	Barium, Dissolved	2000	ug/L
71-43-2	Benzene	5	ug/L
92-87-5	Benzidine	0.00029	ug/L
56-55-3	Benzo(a)anthracene	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.2	ug/L
205-99-2	Benzo(b)fluoranthene	0.2	ug/L
65-85-0	Benzoic acid	150000	ug/L
100-51-6	Benzyl alcohol	11000	ug/L
7440-41-7	Beryllium	4	ug/L
7440-41-7d	Beryllium, Dissolved	4	ug/L
319-85-7	beta-BHC	0.037	ug/L
111-44-4	bis(2-Chloroethyl) ether	0.0098	ug/L
108-60-1	bis(2-Chloroisopropyl)-ether	0.27	ug/L
117-81-7	bis(2-Ethylhexyl)-phthalate	6	ug/L
75-27-4	Bromodichloromethane	100	ug/L
75-25-2	Bromoform	100	ug/L
74-83-9	Bromomethane	8.7	ug/L
85-68-7	Butyl benzyl phthalate	100	ug/L
7440-43-9	Cadmium	5	ug/L
7440-43-9d	Cadmium, Dissolved	5	ug/L
75-15-0	Carbon disulfide	1000	ug/L
56-23-5	Carbon tetrachloride	5	ug/L
57-74-9	Chlordane	2	ug/L
108-90-7	Chlorobenzene	100	ug/L
67-66-3	Chloroform	100	ug/L
74-87-3	Chloromethane	1.5	ug/L
7440-47-3	Chromium (total)	100	ug/L
7440-47-3d	Chromium, Dissolved	100	ug/L
1333-82-0	Chromium, Hexavalent	180	ug/L
218-01-9	Chrysene	0.2	ug/L
156-59-2	cis-1,2-Dichloroethene	70	ug/L

HWAD - Groundwater Action Level

Casno	Analyte	Action level	Units
5103-74-2	cis-Chlordane	2	ug/L
57-12-5	Cyanide, Total	200	ug/L
75-99-0	Dalapon	200	ug/L
8065-48-3	Demeton	1.5	ug/L
333-41-5	Diazinon	33	ug/L
53-70-3	Dibenz(a,h)anthracene	0.0092	ug/L
132-64-9	Dibenzofuran	24	ug/L
124-48-1	Dibromochloromethane	100	ug/L
1918-00-9	Dicamba	1100	ug/L
75-71-8	Dichlorodifluoromethane	390	ug/L
62-73-7	Dichlorvos	0.23	ug/L
60-57-1	Dieldrin	0.0042	ug/L
84-66-2	Diethyl phthalate	29000	ug/L
131-11-3	Dimethyl phthalate	370000	ug/L
84-74-2	Di-n-butyl phthalate	3700	ug/L
117-84-0	Di-n-octyl phthalate	730	ug/L
88-85-7	Dinoseb	7	ug/L
122-39-4	Diphenylamine	910	ug/L
298-04-4	Disyston (Disulfoton)	1.5	ug/L
2921-88-2	Dursban (Chlorpyrifos)	110	ug/L
959-98-8	Endosulfan I	220	ug/L
72-20-8	Endrin	2	ug/L
100-41-4	Ethylbenzene	700	ug/L
206-44-0	Fluoranthene	1500	ug/L
86-73-7	Fluorene	240	ug/L
16984-48-8	Fluoride	4000	ug/L
58-89-9	gamma-BHC (Lindane)	0.2	ug/L
76-44-8	Heptachlor	0.4	ug/L
1024-57-3	Heptachlor epoxide	0.2	ug/L
118-74-1	Hexachlorobenzene	1	ug/L
87-68-3	Hexachlorobutadiene	0.86	ug/L
77-47-4	Hexachlorocyclopentadiene	50	ug/L
67-72-1	Hexachloroethane	4.8	ug/L
2691-41-0	HMX	1800	ug/L
193-39-5	Indeno(1,2,3-c,d)pyrene	0.092	ug/L
7439-89-6	Iron	11000	ug/L
78-59-1	Isophorone	71	ug/L
7439-92-1	Lead	15	ug/L
7439-92-1d	Lead, Dissolved	15	ug/L
TT015	m- & p-Xylene(s)	10000	ug/L
94-74-6	MCPA	18	ug/L
93-65-2	MCPP	37	ug/L
7439-97-6	Mercury	2	ug/L
7439-97-6d	Mercury, Dissolved	2	ug/L
150-50-5	Merphos	1.1	ug/L
72-43-5	Methoxychlor	40	ug/L
298-00-0	Methyl parathion	9.1	ug/L
75-09-2	Methylene Chloride	5	ug/L
1634-04-4	MTBE	20	ug/L
300-76-5	Naled	73	ug/L

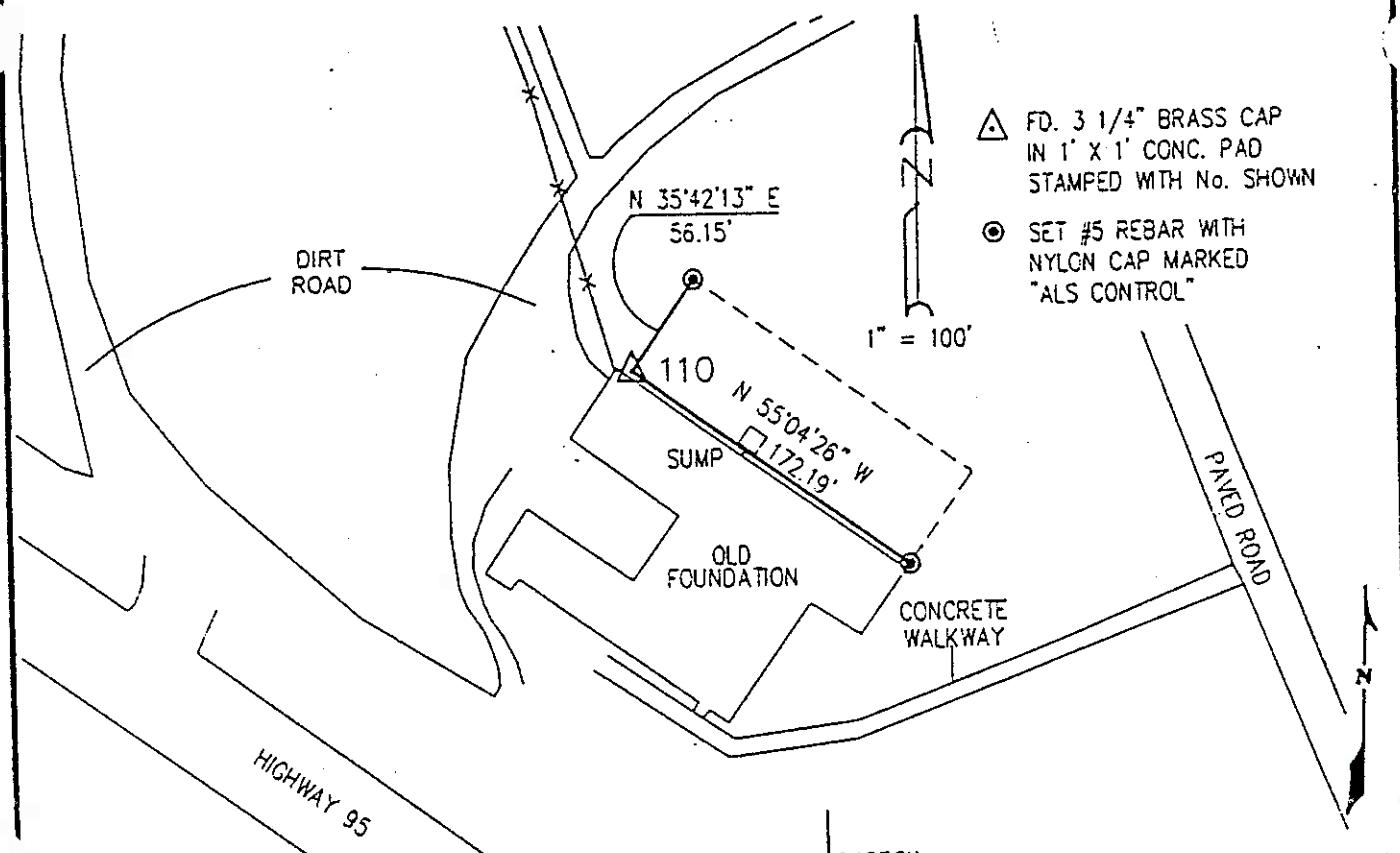
HWAD - Groundwater Action Level

Casno	Analyte	Action level	Units
91-20-3	Naphthalene	6.2	ug/L
14797-55-8	Nitrate	10000	ug/L
TT011	Nitrate plus Nitrite as N	1000	ug/L
14797-65-0	Nitrite	1000	ug/L
98-95-3	Nitrobenzene	3.4	ug/L
62-75-9	N-Nitrosodimethylamine	0.0013	ug/L
924-16-3	N-Nitroso-di-n-butylamine	0.002	ug/L
621-64-7	N-Nitroso-di-n-propylamine	0.0096	ug/L
86-30-6	N-Nitrosodiphenylamine	14	ug/L
95-47-6	o-Xylene	10000	ug/L
608-93-5	Pentachlorobenzene	29	ug/L
82-86-8	Pentachloronitrobenzene	0.26	ug/L
87-86-5	Pentachlorophenol	1	ug/L
108-95-2	Phenol	22000	ug/L
298-02-2	Phorate (Thimet)	7.3	ug/L
88-89-1	Picric Acid	1	ug/L
23950-58-5	Pronamide	2700	ug/L
129-00-0	Pyrene	180	ug/L
121-82-4	RDX	0.61	ug/L
299-84-3	Ronnel	1800	ug/L
7782-49-2	Selenium	180	ug/L
7782-49-2d	Selenium, Dissolved	180	ug/L
7440-22-4	Silver	180	ug/L
7440-22-4d	Silver, Dissolved	180	ug/L
100-42-5	Styrene	100	ug/L
127-18-4	Tetrachloroethene	5	ug/L
961-11-5	Tetrachlorvinphos	2.8	ug/L
479-54-8	Tetryl	365	ug/L
108-88-3	Toluene	1000	ug/L
8001-35-2	Toxaphene	3	ug/L
156-60-5	trans-1,2-Dichloroethene	100	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.081	ug/L
5103-71-9	trans-Chlordane	2	ug/L
79-01-6	Trichloroethene	5	ug/L
75-69-4	Trichlorofluoromethane	1300	ug/L
108-05-4	Vinyl acetate	410	ug/L
75-01-4	Vinyl chloride	2	ug/L

APPENDIX B

SURVEY DATA

MONUMENT 110. - SWMU H-5
FROM THORNE ROAD, TAKE HIGHWAY 95 NORTHWEST 600 FEET TO A DIRT
ROAD, THEN NORTH 300 FEET AROUND AN OLD FOUNDATION TO THE WEST
CORNER OF H-5 SITE. SEE MAP BELOW. MONUMENT IS A 3 1/4" BRASS
CAP SET IN A 1' X 1' CONCRETE PAD AND IS MARKED WITH A 4" X 4" X
6' WOOD POST, PAINTED WHITE.



DA FORM 1 OCT 44 1959

**REPLACES DA FORMS 1958
AND 1960, 1 FEB 57, WHICH
ARE OBSOLETE.**

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent
agency is TRADOC.

SWMU H05 Survey Data
Hawthorne Army Depot
Hawthorne, Nevada

SWMU	Point ID	Northing (feet)	Easting (feet)	Elevation
H05	HWAAP-110-1996	1383099.86	480529.73	4145.33
H05	Pin 1	1383145.46	480562.50	NE
H05	Pin 2	1383001.25	480670.91	NE
H05	SB01	1383090.75	480558.61	NE
H05	SB02	1383068.29	480593.99	NE
H05	SB03	1383060.50	480612.09	NE
H05	SB04	1383039.88	480642.96	NE
H05	SB05	1383009.79	480671.80	NE
H05	SS01	1383053.50	480598.13	NE
H05	SS02	1383047.27	480607.82	NE
H05	SS03	1383030.07	480632.43	NE
H05	SS04	1383025.42	480638.99	NE
H05	SS05	1383065.36	480667.68	NE
H05	SS06	1383069.56	480643.02	NE
H05	SS07	1383085.98	480636.97	NE
H05	SS08	1383125.04	480583.83	NE

Notes:

NE = Not established.

Coordinate data based on electronic map file using the NAD 1927 datum.

Elevation data based on surveyors map using NGVD 1929 datum.

APPENDIX C

ANALYTICAL DATA FROM INVESTIGATION

**Maximum Metal Concentrations Considered Representative
of Background Soil Samples from
Hawthorne Army Depot, Hawthorne, Nevada**

	Al (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Sc (mg/kg)	Ag mg/kg
Maximum Background Metal Concentration (Mean plus 2 Std. Dev.) ⁽¹⁾	12,365	18.1	447	0.58	1.08	13.76	16.7	0.108	NA ⁽²⁾	NA ⁽²⁾

Notes: 1. For purposes of calculating mean and standard deviations, non-detect values were set to 50 percent of the detection limit, e.g., a value of 0.25 would be used during statistical calculations to represent a non-detect value of <0.50.

2. NA - insufficient detect to calculate meaningful statistics

Source: Technical Memorandum Background Soil Sampling (Tr 1997d)

Table 3-1
Summary of Sediment Sample and Soil Sample Analyses
SWMU H05 - Depot Laundry Washout

Sample ID	Sample Date	Depth (feet)	Metals		RDX Test		TNT Test		Volatile Organics		Semivolatile Organics		pH
			6010A APCL	7471A APCL	Kit Tit Field	8510 Tit Field	Explosives APCL	8330M APCL	8260A APCL	8270B APCL	Organics	Semivolatile Organics	
H05-SD01-1-S	3/3/97	0.5	X	X	X	X	X	X	X	X	X	X	X
H05-SS01-1-S	2/18/97	0	X	X	X	X	X	X	X	X	X	X	X
H05-SS02-1-S	2/18/97	0	X	X	X	X	X	X	X	X	X	X	X
H05-SS03-1-S	2/18/97	0	X	X	X	X	X	X	X	X	X	X	X
H05-SS04-1-S	2/18/97	0	X	X	X	X	X	X	X	X	X	X	X
H05-SS05-1-S	3/3/97	0.5	X	X	X	X	X	X	X	X	X	X	X
H05-SS05-2-S	3/3/97	0.5	X	X	X	X	X	X	X	X	X	X	X
H05-SS06-1-S	3/3/97	1	X	X	X	X	X	X	X	X	X	X	X
H05-SS07-1-S	3/3/97	0.5	X	X	X	X	X	X	X	X	X	X	X
H05-SS08-1-S	3/3/97	0.5	X	X	X	X	X	X	X	X	X	X	X
H05-SB01-1-S	2/12/97	2	X	X	X	X	X	X	X	X	X	X	X
H05-SB01-2-S	2/12/97	6.5	X	X	X	X	X	X	X	X	X	X	X
H05-SB01-3-S	2/12/97	11.5	X	X	X	X	X	X	X	X	X	X	X
H05-SB02-1-S	2/12/97	1.5	X	X	X	X	X	X	X	X	X	X	X
H05-SB02-2-S	2/12/97	6	X	X	X	X	X	X	X	X	X	X	X
H05-SB03-1-S	2/12/97	1.5	X	X	X	X	X	X	X	X	X	X	X
H05-SB03-2-S	2/12/97	6.5	X	X	X	X	X	X	X	X	X	X	X
H05-SB04-1-S	2/12/97	2	X	X	X	X	X	X	X	X	X	X	X
H05-SB04-2-S	2/12/97	5.5	X	X	X	X	X	X	X	X	X	X	X
H05-SB04-3-S	2/12/97	5.75	X	X	X	X	X	X	X	X	X	X	X
H05-SB05-1-S	2/12/97	1.5	X	X	X	X	X	X	X	X	X	X	X
H05-SB05-2-S	2/12/97	6	X	X	X	X	X	X	X	X	X	X	X
H05-SB05-3-S	2/12/97	6.25	X	X	X	X	X	X	X	X	X	X	X

Notes:

Sample H05-SS05-2-S is a split duplicate sample of H05-SS05-1-S.

Sample H05-SB04-3-S is a collocated duplicate sample of H05-SB04-2-S.

Sample H05-SB05-3-S is a collocated duplicate sample of H05-SB05-2-S.

Description of Qualifiers

- J Data are considered quantitatively estimated.
- J+ Data are considered quantitatively estimated with a possible high bias.
- J- Data are considered quantitatively estimated with a possible low bias.
- N Data are considered quantitatively presumptive due to tentative analyte identification.
- NJ Data are considered quantitatively presumptive due to tentative analyte identification; the associated value is considered quantitatively estimated.
- R Data are rejected and considered unusable for all purposes.
- UJ Analyte is considered not present above the level of the associated value; the associated value is considered quantitatively estimated.
- UJ- Analyte is considered not present above the level of the associated value; the associated value is considered quantitatively estimated with a possible low bias.

Metals
Method 6010A (APCL)

Sample ID	Location ID	Depth (feet)	ppm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Silver, Total
H05-SB01-1-S	SB01	2/12/97	2	APCL	7490	2.7	60.4	<0.018	<0.021	3.8	4.3	NA <0.18 <0.073
H05-SB01-2-S	SB01	2/12/97	6.5	APCL	9620	2.3	66.5	<0.019	<0.022	4.7	5.6	NA <0.2 <0.076
H05-SB01-3-S	SB01	2/12/97	11.5	APCL	9040	4.3	90.3	<0.019	<0.022	5.1	6.2	NA <0.2 <0.077
H05-SB02-1-S	SB02	2/12/97	1.5	APCL	7750	2.2	55.2	<0.018	<0.021	3.5	4.8	NA <0.19 <0.073
H05-SB02-2-S	SB02	2/12/97	6	APCL	4790	1	37.5	<0.018	<0.021	2.2	2.6	NA <0.19 <0.071
H05-SB03-1-S	SB03	2/12/97	1.5	APCL	5570	2.1	41.4	<0.018	<0.021	2.7	2.8	NA <0.19 <0.072
H05-SB03-2-S	SB03	2/12/97	6.5	APCL	3470	1.3	33.6	<0.017	<0.02	2.7	1.6	NA <0.18 <0.07
H05-SB04-1-S	SB04	2/12/97	2	APCL	6490	1.9	51.5	<0.018	<0.021	3.3	4.8	NA <0.19 <0.073
H05-SB04-2-S	SB04	2/12/97	5.5	APCL	5450	2.8	52.4	<0.018	<0.021	3.2	3.4	NA <0.19 <0.071
H05-SB04-3-S	SB04	2/12/97	5.5	APCL	4580	2.5	44.3	<0.018	<0.021	2.7	2.9	NA <0.19 <0.071
H05-SB05-1-S	SB05	2/12/97	1.5	APCL	8230	2.4	61.3	<0.018	<0.021	4	5.3	NA <0.19 <0.073
H05-SB05-2-S	SB05	2/12/97	6	APCL	6780	2	53	<0.019	<0.021	3.8	3.7	NA <0.19 <0.071
H05-SB05-3-S	SB05	2/12/97	6	APCL	5300	1.8	42.7	<0.018	<0.021	2.7	2.9	NA <0.19 <0.072
H05-SD01-1-S	SD01	3/3/97	0.5	APCL	7230	14	682	<0.004	1.58	160	1110	NA <0.99 7.7
H05-SS01-1-S	SS01	2/18/97	0	APCL	6990	1.8	65.9	<0.017	0.94	7.3	79.5	NA <0.18 <0.07
H05-SS02-1-S	SS02	2/18/97	0	APCL	NA	2.2	67.8	<0.018	1.8	6.9	36.8	NA <0.19 <0.073
H05-SS03-1-S	SS03	2/18/97	0	APCL	NA	1.7	59.6	<0.017	<0.021	4.5	9.9	NA <0.18 <0.071
H05-SS04-1-S	SS04	2/18/97	0	APCL	NA	2.1	72.6	<0.018	<0.021	5.4	6.4	NA <0.19 <0.072
H05-SS05-1-S	SS05	3/3/97	0.5	APCL	6240	1.9	60.1	<0.019	0.42	4.8	62.8	NA <0.2 <0.076
H05-SS05-2-S	SS05	3/3/97	0.5	APCL	6070	1.9	61.1	<0.019	0.36	4.4	95.5	NA <0.2 <0.077
H05-SS06-1-S	SS06	3/3/97	1	APCL	6950	2	64	<0.019	0.46	4.4	85.4	NA <0.2 <0.078
H05-SS07-1-S	SS07	3/3/97	0.5	APCL	4780	1.4	53.7	<0.019	1.1	4.7	51.8	NA <0.2 <0.076
H05-SS08-1-S	SS08	3/3/97	0.5	APCL	5790	2.1	54.6	<0.019	0.38	5.3	44.1	NA <0.2 <0.077
<hr/>												
Analyses			20	23	23	23	23	23	23	0	23	23
Detections			20	23	23	0	8	23	23	0	0	1
Minimum Concentration			3470	1	33.6	0	0.36	2.2	1.6	0	0	7.7
Maximum Concentration			9620	14	682	0	158	160	1110	0	0	7.7
HWAD - PCG			80000	100	2000	1	20	20	100	NE	20	100
HWAD - PCG Hits			0	0	0	0	1	1	1	NE	0	0
Maximum Background Concentration			12365	18.1	447	0.58	1.08	13.76	16.7	0	0	0
Background Hits			0	0	1	0	3	1	8	0	0	0

**Method
(APCCL)**

Notes:
NA = Not analyzed.
NE = Not established.

Mercury
Method 7471A (APCL)

Sample ID	Location ID	Date	Sample Depth (feet)	Lab	Mercury, Total mg/kg
H05-SB01-1-S	SB01	2/12/97	2	APCL	<0.072
H05-SB01-2-S	SB01	2/12/97	6.5	APCL	<0.074
H05-SB01-3-S	SB01	2/12/97	11.5	APCL	<0.076
H05-SB02-1-S	SB02	2/12/97	1.5	APCL	<0.072
H05-SB02-2-S	SB02	2/12/97	6	APCL	<0.07
H05-SB03-1-S	SB03	2/12/97	1.5	APCL	<0.071
H05-SB03-2-S	SB03	2/12/97	6.5	APCL	<0.069
H05-SB04-1-S	SB04	2/12/97	2	APCL	<0.072
H05-SB04-2-S	SB04	2/12/97	5.5	APCL	<0.07
H05-SB04-3-S	SB04	2/12/97	5.5	APCL	<0.07
H05-SB05-1-S	SB05	2/12/97	1.5	APCL	<0.072
H05-SB05-2-S	SB05	2/12/97	6	APCL	<0.07
H05-SB05-3-S	SB05	2/12/97	6	APCL	<0.071
H05-SD01-1-S	SD01	3/3/97	0.5	APCL	12.1
H05-SS01-1-S	SS01	2/18/97	0	APCL	<0.069
H05-SS02-1-S	SS02	2/18/97	0	APCL	<0.072
H05-SS03-1-S	SS03	2/18/97	0	APCL	<0.07
H05-SS04-1-S	SS04	2/18/97	0	APCL	<0.071
H05-SS05-1-S	SS05	3/3/97	0.5	APCL	<0.075
H05-SS05-2-S	SS05	3/3/97	0.5	APCL	<0.078
H05-SS06-1-S	SS06	3/3/97	1	APCL	<0.076
H05-SS07-1-S	SS07	3/3/97	0.5	APCL	<0.075
H05-SS08-1-S	SS08	3/3/97	0.5	APCL	<0.076
<hr/>					
Analyses					23
Detections					1
Minimum Concentration					12.1
Maximum Concentration					12.1
<hr/>					
HWAD - PCG					24
HWAD - PCG Hits					0
<hr/>					
Maximum Background Concentration					0.108
Background Hits					1
<hr/>					

Notes:

NA = Not analyzed.

NE = Not established.

Sample ID	Location ID	Sample Date	Depth (feet)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H05-SB01-1-S	SB01	2/12/97	2	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004
H05-SB01-2-S	SB01	2/12/97	6.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004
H05-SB01-3-S	SB01	2/12/97	11.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004
H05-SB02-1-S	SB02	2/12/97	1.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004
H05-SB02-2-S	SB02	2/12/97	6	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004
H05-SB03-1-S	SB03	2/12/97	1.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004
H05-SB03-2-S	SB03	2/12/97	6.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004
H05-SB04-1-S	SB04	2/12/97	2	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004
H05-SB04-2-S	SB04	2/12/97	5.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004
H05-SB04-3-S	SB04	2/12/97	5.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004
H05-SB05-1-S	SB05	2/12/97	1.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004
H05-SB05-2-S	SB05	2/12/97	6	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004
H05-SB05-3-S	SB05	2/12/97	6	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004
H05-SD01-1-S	SD01	3/3/97	0.5	APCL	<0.0001	<0.0006	<0.0006	<0.0006	<0.0006	<0.001	<0.002
Trichloroethylene											
trans-1,3-Dichloropropene											
trans-1,2-Dichloroethylene											
Toluene											
Tetrachloroethylene											
tert-Butylbenzene											
styrene											
sec-Butylbenzene											
o-Xylene											
Naphthalene											
n-Propylbenzene											
n-Butylbenzene											
Analyses											
Detections	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration	0	0	0	0	0	0	0	0	0	0	0
HWAD - PCG	NE	NE	NE	NE	3200	160000	NE	NE	15	16000	NE
HWAD - PCG Hits	NE	NE	NE	NE	0	0	NE	NE	0	0	0

Notes:
 NA = Not analyzed.
 NE = Not established.

VOCS
Method 8260A (APCL)

Sample ID	Location ID	Sample Date (feet)	Depth ft	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H05-SB01-1-S	SB01	2/12/97	2	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
H05-SB01-2-S	SB01	2/12/97	6.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
H05-SB01-3-S	SB01	2/12/97	11.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
H05-SB02-1-S	SB02	2/12/97	1.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
H05-SB02-2-S	SB02	2/12/97	6	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
H05-SB03-1-S	SB03	2/12/97	1.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
H05-SB03-2-S	SB03	2/12/97	6.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
H05-SB04-1-S	SB04	2/12/97	2	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
H05-SB04-2-S	SB04	2/12/97	5.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
H05-SB04-3-S	SB04	2/12/97	5.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
H05-SB05-1-S	SB05	2/12/97	1.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
H05-SB05-2-S	SB05	2/12/97	6	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
H05-SB05-3-S	SB05	2/12/97	6	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
H05-SD01-1-S	SD01	3/3/97	0.5	APCL	<0.001	<0.001	<0.0008	<0.0008	<0.001	<0.0008	<0.001	<0.0008	<0.001	<0.0008	<0.001	<0.0008	<0.001	<0.0008	<0.001
Analyses					14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Detections					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HWAD - PCG					24000	24000	NE	7200	35	NE	480	NE							
HWAD - PCG Hits					0	0	NE	0	0	NE	0	NE							

Notes:
NA = Not analyzed.
NE = Not established.

Notes:
NA = N
NE = N

VOCs
Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	4-isopropyltoluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorobenzene	Chloroform	Chloroethylene	Chloromethane
H05-SB01-1-S	SB01	2/12/97	2	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0003	<0.0007	<0.0002	<0.0003	
H05-SB01-2-S	SB01	2/12/97	6.5	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0002	<0.0008	<0.0002	<0.0003	
H05-SB01-3-S	SB01	2/12/97	11.5	APCL	<0.0002	<0.0002	<0.0001	<0.0006	<0.0002	<0.0001	<0.0002	<0.0008	<0.0002	<0.0003	
H05-SB02-1-S	SB02	2/12/97	1.5	APCL	<0.0002	<0.0002	<0.0001	<0.0005	<0.0002	<0.0001	<0.0003	<0.0007	<0.0002	<0.0003	
H05-SB02-2-S	SB02	2/12/97	6	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	
H05-SB03-1-S	SB03	2/12/97	1.5	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	
H05-SB03-2-S	SB03	2/12/97	6.5	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	
H05-SB04-1-S	SB04	2/12/97	2	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	
H05-SB04-2-S	SB04	2/12/97	5.5	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	
H05-SB04-3-S	SB04	2/12/97	5.5	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	
H05-SB05-1-S	SB05	2/12/97	1.5	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	
H05-SB05-2-S	SB05	2/12/97	6	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	
H05-SB05-3-S	SB05	2/12/97	6	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	
H05-SD01-1-S	SD01	3/3/97	0.5	APCL	<0.001	<0.001	<0.0008	<0.003	<0.001	<0.002	<0.002	<0.001	<0.004	<0.002	
					14	14	14	14	14	14	14	14	14	14	14
Analyses	Deletions	Minimum Concentration	Maximum Concentration												
					0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0
HWAD - PCG	NE	10	NE	NE	NE	NE	NE	89	112	10	2000	NE	120	538	
HWAD - PCG Hits	NE	0	NE	NE	NE	NE	NE	0	0	0	0	NE	0	0	0

Notes:
NA = Not analyzed.
NE = Not established.

Method (APCL)	Sample ID	Location ID	Sample Depth (feet)	Lab	MTBE			
					mg/kg	mg/kg	mg/kg	mg/kg
H05-SB01-1-S	SB01	2/12/97	2	APCL	<0.0002	NA	<0.0002	<0.0002
H05-SB01-2-S	SB01	2/12/97	6.5	APCL	<0.0002	NA	<0.0002	<0.0002
H05-SB01-3-S	SB01	2/12/97	11.5	APCL	<0.0002	NA	<0.0002	<0.0002
H05-SB02-1-S	SB02	2/12/97	1.5	APCL	<0.0002	NA	<0.0001	<0.0008
H05-SB02-2-S	SB02	2/12/97	6	APCL	<0.0002	NA	<0.0002	<0.0002
H05-SB03-1-S	SB03	2/12/97	1.5	APCL	<0.0002	NA	<0.0002	<0.0007
H05-SB03-2-S	SB03	2/12/97	6.5	APCL	<0.0002	NA	<0.0003	<0.0002
H05-SB04-1-S	SB04	2/12/97	2	APCL	<0.0002	NA	<0.0001	<0.0002
H05-SB04-2-S	SB04	2/12/97	5.5	APCL	<0.0002	NA	<0.0002	<0.0002
H05-SB04-3-S	SB04	2/12/97	5.5	APCL	<0.0002	NA	<0.0002	<0.0002
H05-SB05-1-S	SB05	2/12/97	1.5	APCL	<0.0002	NA	<0.0009	<0.0002
H05-SB05-2-S	SB05	2/12/97	6	APCL	<0.0002	NA	<0.0009	<0.0002
H05-SB05-3-S	SB05	2/12/97	6	APCL	<0.0002	NA	<0.0009	<0.0002
H05-SD01-1-S	SD01	3/3/97	0.5	APCL	0.12	<0.0006	<0.005	<0.006
					<0.001	<0.001	<0.001	<0.001
								<0.004

Notes:
 NA = Not analyzed.
 NE = Not established.

SVOCS
Method 8270B (APCL)

Method (APCL)

	Sample ID	Location ID	Date	Depth (feet)	Lab	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
						Analyses	Detections	Minimum Concentration	Maximum Concentration		
1,2,4-Tetrachlorobenzene						23	23	23	23	NE	NE
1,2,4,5-Tetrachlorobenzene						0	0	0	0	0	0
1,2,4,5-Tetrachlorophenol						0	0	0	0	0	0
1,2-Diphenylhydrazine						0	0	0	0	0	0
1,3-Dichlorobenzene						0	0	0	0	0	0
1,4-Dichlorobenzene						0	0	0	0	0	0
1-Chloronaphthalene						0	0	0	0	0	0
1-Naphthylamine						0	0	0	0	0	0
2,3,4,6-Tetrachlorophenol						0	0	0	0	0	0
2,4,5-Trichlorophenol						0	0	0	0	0	0
2,4,6-Trichlorophenol						0	0	0	0	0	0
2,4-Dichlorophenol						0	0	0	0	0	0

Notes:

NA = Not analyzed.

NE = Not established.

SVOCs
Method 8270B (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H05-SB01-1-S	SB01	2/12/97	2	APCL	<0.034	<0.31	w	<0.02	NA	<0.018	<0.07
H05-SB01-2-S	SB01	2/12/97	6.5	APCL	<0.035	<0.32	w	<0.021	NA	<0.019	<0.072
H05-SB01-3-S	SB01	2/12/97	11.5	APCL	<0.036	<0.32	w	<0.021	NA	<0.019	<0.07
H05-SB02-1-S	SB02	2/12/97	1.5	APCL	<0.034	<0.31	w	<0.02	NA	<0.018	<0.07
H05-SB02-2-S	SB02	2/12/97	6	APCL	<0.033	<0.3	w	<0.02	NA	<0.016	<0.068
H05-SB03-1-S	SB03	2/12/97	1.5	APCL	<0.033	<0.3	w	<0.02	NA	<0.018	<0.06
H05-SB03-2-S	SB03	2/12/97	6.5	APCL	<0.032	<0.29	w	<0.019	NA	<0.017	<0.067
H05-SB04-1-S	SB04	2/12/97	2	APCL	<0.034	<0.31	w	<0.02	NA	<0.018	<0.07
H05-SB04-2-S	SB04	2/12/97	5.5	APCL	<0.033	<0.3	w	<0.02	NA	<0.018	<0.068
H05-SB04-3-S	SB04	2/12/97	5.5	APCL	<0.033	<0.3	w	<0.02	NA	<0.018	<0.068
H05-SB05-1-S	SB05	2/12/97	1.5	APCL	<0.034	<0.3	w	<0.02	NA	<0.018	<0.066
H05-SB05-2-S	SB05	2/12/97	6	APCL	<0.033	<0.3	w	<0.02	NA	<0.018	<0.068
H05-SB05-3-S	SB05	2/12/97	6	APCL	<0.033	<0.3	w	<0.02	NA	<0.018	<0.068
H05-SD01-1-S	SD01	3/3/97	0.5	APCL	<1.4	<0.3	w	<0.66	NA	<0.99	<1.3
H05-SS01-1-S	SS01	2/18/97	0	APCL	<0.032	<0.29	w	<0.019	NA	<0.017	<0.067
H05-SS02-1-S	SS02	2/18/97	0	APCL	<0.034	<0.3	w	<0.02	NA	<0.018	<0.06
H05-SS03-1-S	SS03	2/18/97	0	APCL	<0.033	<0.3	w	<0.019	NA	<0.017	<0.068
H05-SS04-1-S	SS04	2/18/97	0	APCL	<0.034	<0.3	w	<0.02	NA	<0.018	<0.06
H05-SS05-1-S	SS05	3/3/97	0.5	APCL	<0.029	<0.17	w	<0.013	NA	<0.02	<0.025
H05-SS05-2-S	SS05	3/3/97	0.5	APCL	<0.029	<0.17	w	<0.013	NA	<0.02	<0.026
H05-SS06-1-S	SS06	3/3/97	1	APCL	<0.029	<0.17	w	<0.013	NA	<0.02	<0.026
H05-SS07-1-S	SS07	3/3/97	0.5	APCL	<0.029	<0.17	w	<0.013	NA	<0.02	<0.025
H05-SS08-1-S	SS08	3/3/97	0.5	APCL	<0.029	<0.17	w	<0.013	NA	<0.02	<0.026

Method , (APCL)

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Notes:
NA = Not analyzed.

Notes:
NA = Not analyzed.

SVOCs
Method 8270B (APCL)

Sample ID	Location ID	Date	Depth (feet)	Lab	mg/kg						
H05-SB01-1-S	SB01	2/12/97	2	APCL	<0.024	<0.022	<0.021	<0.024	<0.023	<0.024	<0.04
H05-SB01-2-S	SB01	2/12/97	6.5	APCL	<0.025	<0.023	<0.021	<0.022	<0.022	<0.024	<0.042
H05-SB01-3-S	SB01	2/12/97	11.5	APCL	<0.028	<0.023	NA	<0.042	<0.021	<0.022	<0.042
H05-SB02-1-S	SB02	2/12/97	1.5	APCL	<0.024	<0.022	NA	<0.04	<0.02	<0.021	<0.04
H05-SB02-2-S	SB02	2/12/97	6	APCL	<0.024	<0.022	NA	<0.039	<0.02	<0.021	<0.039
H05-SB03-1-S	SB03	2/12/97	1.5	APCL	<0.024	<0.022	NA	<0.04	<0.02	<0.021	<0.04
H05-SB03-2-S	SB03	2/12/97	6.5	APCL	<0.023	<0.021	NA	<0.039	<0.019	<0.02	<0.023
H05-SB04-1-S	SB04	2/12/97	2	APCL	<0.024	<0.022	NA	<0.04	<0.02	<0.021	<0.04
H05-SB04-2-S	SB04	2/12/97	5.5	APCL	<0.024	<0.022	NA	<0.039	<0.02	<0.021	<0.039
H05-SB04-3-S	SB04	2/12/97	5.5	APCL	<0.024	<0.022	NA	<0.039	<0.02	<0.021	<0.039
H05-SB05-1-S	SB05	2/12/97	1.5	APCL	<0.024	<0.022	NA	<0.04	<0.02	<0.021	<0.04
H05-SB05-2-S	SB05	2/12/97	6	APCL	<0.024	<0.022	NA	<0.039	<0.02	<0.021	<0.039
H05-SB05-3-S	SB05	2/12/97	6	APCL	<0.024	<0.022	NA	<0.039	<0.02	<0.021	<0.039
H05-SD01-1-S	SD01	3/3/97	0.5	APCL	<0.94	<0.5	NA	<3.7	<2.7	<0.61	<0.66
H05-SS01-1-S	SS01	2/18/97	0	APCL	<0.023	<0.021	NA	<0.039	<0.019	<0.02	<0.023
H05-SS02-1-S	SS02	2/18/97	0	APCL	<0.024	<0.022	NA	<0.04	<0.02	<0.021	<0.024
H05-SS03-1-S	SS03	2/18/97	0.5	APCL	<0.019	<0.01	NA	<0.039	<0.019	<0.021	<0.024
H05-SS04-1-S	SS04	2/18/97	0	APCL	<0.024	<0.022	NA	<0.04	<0.02	<0.021	<0.024
H05-SS05-1-S	SS05	3/3/97	0.5	APCL	<0.019	<0.01	NA	<0.074	<0.054	<0.012	<0.013
H05-SS05-2-S	SS05	3/3/97	0.5	APCL	<0.019	<0.01	NA	<0.075	<0.055	<0.012	<0.013
H05-SS06-1-S	SS06	3/3/97	1	APCL	<0.019	<0.01	NA	<0.075	<0.055	<0.012	<0.013
H05-SS07-1-S	SS07	3/3/97	0.5	APCL	<0.019	<0.01	NA	<0.074	<0.054	<0.012	<0.013
H05-SS08-1-S	SS08	3/3/97	0.5	APCL	<0.019	<0.01	NA	<0.075	<0.055	<0.012	<0.013

Method (APCL)

	Sample ID	Location ID	Sample Date (feet)	Lab	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Analyses					23	23	0	23	23	23
Detections					0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0
HWAD - PCG					NE	NE	NE	NE	NE	NE
HWAD - PCG Hits					NE	NE	NE	NE	NE	NE
<i>Notes:</i>										
NA = Not analyzed.										
NE = Not established.										

Notes:

NA = Not analyzed.
NE = Not established.

SVOCs
Method 8270B (APCL)

Sample ID.	Location ID	Sample Date	Depth (feet)	Lab	4-Nitroaniline		a,a-Dimethylphenylethylylamine		7,12-Dimethylibenz(a)anthracene		Acenaphthene		Acenaphthylene		Acetophenone		Anililine		Anthracene		Benzidine		Benz(a)anthracene		Benz(a)pyrene			
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
105-SB01-1-S	SB01	2/12/97	2	APCL	<0.021	<0.11	<0.014	<0.062	<0.022	<0.021	<0.022	<0.043	<0.024	<0.058	<0.07	<0.022	<0.025	<0.06	<0.08	<0.023	<0.026	<0.061	<0.081	<0.023	<0.026	<0.061	<0.081	
105-SB01-2-S	SB01	2/12/97	6.5	APCL	<0.022	<0.11	<0.014	<0.06	<0.023	<0.022	<0.023	<0.046	<0.026	<0.059	<0.078	<0.022	<0.024	<0.059	<0.07	<0.022	<0.024	<0.057	<0.075	<0.022	<0.024	<0.057	<0.075	
105-SB01-3-S	SB01	2/12/97	11.5	APCL	<0.022	<0.11	<0.014	<0.066	<0.023	<0.022	<0.023	<0.044	<0.024	<0.059	<0.078	<0.022	<0.022	<0.059	<0.078	<0.022	<0.024	<0.057	<0.075	<0.022	<0.024	<0.057	<0.075	
105-SB02-1-S	SB02	2/12/97	1.5	APCL	<0.021	<0.11	<0.014	<0.063	<0.022	<0.021	<0.022	<0.042	<0.024	<0.053	<0.075	<0.022	<0.022	<0.053	<0.075	<0.022	<0.024	<0.057	<0.075	<0.022	<0.024	<0.057	<0.075	
105-SB02-2-S	SB02	2/12/97	6	APCL	<0.021	<0.1	<0.013	<0.061	<0.022	<0.021	<0.022	<0.043	<0.024	<0.057	<0.07	<0.022	<0.022	<0.057	<0.07	<0.022	<0.024	<0.057	<0.07	<0.022	<0.024	<0.057	<0.07	
105-SB03-1-S	SB03	2/12/97	1.5	APCL	<0.021	<0.1	<0.014	<0.062	<0.022	<0.021	<0.021	<0.042	<0.021	<0.056	<0.074	<0.021	<0.021	<0.056	<0.074	<0.021	<0.023	<0.059	<0.078	<0.022	<0.024	<0.059	<0.078	
105-SB03-2-S	SB03	2/12/97	6.5	APCL	<0.02	<0.1	<0.013	<0.06	<0.022	<0.021	<0.022	<0.044	<0.024	<0.059	<0.078	<0.022	<0.022	<0.059	<0.078	<0.022	<0.024	<0.057	<0.075	<0.022	<0.024	<0.057	<0.075	
105-SB04-1-S	SB04	2/12/97	2	APCL	<0.021	<0.11	<0.014	<0.063	<0.022	<0.021	<0.022	<0.044	<0.022	<0.057	<0.078	<0.022	<0.022	<0.057	<0.078	<0.022	<0.024	<0.057	<0.075	<0.022	<0.024	<0.057	<0.075	
105-SB04-2-S	SB04	2/12/97	5.5	APCL	<0.021	<0.1	<0.013	<0.061	<0.022	<0.021	<0.022	<0.042	<0.024	<0.057	<0.075	<0.022	<0.022	<0.057	<0.075	<0.022	<0.024	<0.057	<0.075	<0.022	<0.024	<0.057	<0.075	
105-SB04-3-S	SB04	2/12/97	5.5	APCL	<0.021	<0.1	<0.013	<0.061	<0.022	<0.021	<0.022	<0.042	<0.024	<0.058	<0.075	<0.022	<0.022	<0.058	<0.075	<0.022	<0.024	<0.058	<0.078	<0.022	<0.024	<0.058	<0.078	
105-SB05-1-S	SB05	2/12/97	1.5	APCL	<0.021	<0.11	<0.014	<0.062	<0.022	<0.021	<0.022	<0.042	<0.024	<0.057	<0.075	<0.022	<0.022	<0.057	<0.075	<0.022	<0.024	<0.057	<0.075	<0.022	<0.024	<0.057	<0.075	
105-SB05-2-S	SB05	2/12/97	6	APCL	<0.021	<0.1	<0.013	<0.061	<0.022	<0.021	<0.022	<0.043	<0.024	<0.058	<0.075	<0.022	<0.022	<0.058	<0.075	<0.022	<0.024	<0.058	<0.075	<0.022	<0.024	<0.058	<0.075	
105-SB05-3-S	SB05	2/12/97	6	APCL	<0.021	<0.1	<0.013	<0.061	<0.022	<0.021	<0.022	<0.043	<0.024	<0.057	<0.075	<0.022	<0.022	<0.057	<0.075	<0.022	<0.024	<0.057	<0.075	<0.022	<0.024	<0.057	<0.075	
105-SD01-1-S	SD01	3/3/97	0.5	APCL	<3.2	<3.7	<5.4	<2.5	<2.5	<0.63	<0.88	<0.77	<2.7	<0.72	<0.88	<0.72	<0.056	<0.07	<0.056	<0.07	<0.056	<0.07	<0.056	<0.07	<0.056	<0.07	<0.056	<0.07
105-SS01-1-S	SS01	2/18/97	0	APCL	<0.02	<0.1	<0.013	<0.06	<0.021	<0.02	<0.021	<0.042	<0.023	<0.057	<0.074	<0.022	<0.022	<0.057	<0.074	<0.022	<0.024	<0.057	<0.074	<0.022	<0.024	<0.057	<0.074	
105-SS02-1-S	SS02	2/18/97	0	APCL	<0.021	<0.11	<0.014	<0.062	<0.022	<0.021	<0.022	<0.043	<0.024	<0.058	<0.075	<0.022	<0.022	<0.058	<0.075	<0.022	<0.024	<0.058	<0.075	<0.022	<0.024	<0.058	<0.075	
105-SS03-1-S	SS03	2/18/97	0	APCL	<0.1	<0.13	<0.061	<0.022	<0.021	<0.021	<0.022	<0.042	<0.024	<0.056	<0.075	<0.022	<0.022	<0.056	<0.075	<0.022	<0.024	<0.056	<0.075	<0.022	<0.024	<0.056	<0.075	
105-SS04-1-S	SS04	2/18/97	0	APCL	<0.1	<0.014	<0.062	<0.022	<0.021	<0.021	<0.022	<0.043	<0.024	<0.058	<0.075	<0.022	<0.022	<0.058	<0.075	<0.022	<0.024	<0.058	<0.075	<0.022	<0.024	<0.058	<0.075	
105-SS05-1-S	SS05	3/3/97	0.5	APCL	<0.06	<0.075	<0.11	<0.051	<0.017	<0.018	<0.016	<0.054	<0.015	<0.018	<0.015	<0.024	<0.015	<0.018	<0.015	<0.024	<0.015	<0.018	<0.015	<0.024	<0.015	<0.018	<0.015	
105-SS05-2-S	SS05	3/3/97	0.5	APCL	<0.06	<0.075	<0.11	<0.051	<0.017	<0.018	<0.016	<0.054	<0.015	<0.018	<0.015	<0.024	<0.015	<0.018	<0.015	<0.024	<0.015	<0.018	<0.015	<0.024	<0.015	<0.018	<0.015	
105-SS06-1-S	SS06	3/3/97	1	APCL	<0.06	<0.075	<0.11	<0.051	<0.017	<0.018	<0.016	<0.054	<0.015	<0.018	<0.015	<0.024	<0.015	<0.018	<0.015	<0.024	<0.015	<0.018	<0.015	<0.024	<0.015	<0.018	<0.015	
105-SS07-1-S	SS07	3/3/97	0.5	APCL	<0.064	<0.074	<0.11	<0.05	<0.017	<0.018	<0.016	<0.053	<0.014	<0.018	<0.014	<0.024	<0.014	<0.018	<0.014	<0.024	<0.014	<0.018	<0.014	<0.024	<0.014	<0.018	<0.014	
105-SS08-1-S	SS08	3/3/97	0.5	APCL	<0.06	<0.075	<0.11	<0.05	<0.017	<0.018	<0.016	<0.054	<0.015	<0.018	<0.015	<0.024	<0.015	<0.018	<0.015	<0.024	<0.015	<0.018	<0.015	<0.024	<0.015	<0.018	<0.015	

Notes:
 NA = Not analyzed.
 NE = Not established.

SVOCs

Method 8270B (APCL)

MethoL (APCL)

Sample ID	Location ID	Sample Depth Date (feet)	Lab	mg/kg						
			Benzyl alcohol							
			Benzodic acid							
			Benzo(k)fluoranthene							
			Benzo(g,h,i)perylene							
			Benzo(b)fluoranthene							
			Analyses	23	23	23	23	23	23	23
			Detections	1	0	0	0	0	4	2
			Minimum Concentration	0.018	0	0	0	0	0.066	0.026
			Maximum Concentration	0.018	0	0	0	0	0	0.02
HWAD - PCG				0.96	NE	10	NE	NE	3200	16000
HWAD - PCG Hits				0	NE	0	NE	NE	0	96
									0	8000
									0	0

Notes:
 NA = Not analyzed.
 NE = Not established.

SVOCs
Method 8270B (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Dibenz(a,h)anthracene	Dibenz(a,j)acridine	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Diphenylamine	Ethyl methanesulfonate	Fluoranthene	Hexachlorobenzene		
H05-SB01-1-S	SB01	2/12/97	2	APCL	<0.024	<0.021	<0.02	<0.022	<0.016	<0.02	<0.21	<0.025	<0.026	<0.027	
H05-SB01-2-S	SB01	2/12/97	6.5	APCL	<0.025	<0.022	<0.021	<0.023	<0.016	<0.021	<0.22	<0.026	<0.027	<0.028	
H05-SB01-3-S	SB01	2/12/97	11.5	APCL	<0.026	<0.022	<0.021	<0.021	<0.017	<0.021	<0.22	<0.027	<0.028	<0.029	
H05-SB02-1-S	SB02	2/12/97	1.5	APCL	<0.024	<0.021	<0.02	<0.022	<0.016	<0.02	<0.21	<0.026	<0.027	<0.028	
H05-SB02-2-S	SB02	2/12/97	6	APCL	<0.024	<0.021	<0.02	<0.022	<0.016	<0.02	<0.2	<0.025	<0.026	<0.027	
H05-SB03-1-S	SB03	2/12/97	1.5	APCL	<0.024	<0.021	<0.02	<0.022	<0.016	<0.02	<0.21	<0.025	<0.026	<0.027	
H05-SB03-2-S	SB03	2/12/97	6.5	APCL	<0.023	<0.02	<0.019	<0.019	<0.015	<0.019	<0.2	<0.024	<0.025	<0.026	
H05-SB04-1-S	SB04	2/12/97	2	APCL	<0.024	<0.021	<0.02	<0.022	<0.016	<0.02	<0.21	<0.026	<0.027	<0.028	
H05-SB04-2-S	SB04	2/12/97	5.5	APCL	<0.024	<0.021	<0.02	<0.022	<0.015	<0.02	<0.2	<0.025	<0.026	<0.027	
H05-SB04-3-S	SB04	2/12/97	5.5	APCL	<0.024	<0.021	<0.02	<0.022	<0.015	<0.02	<0.2	<0.025	<0.026	<0.027	
H05-SB05-1-S	SB05	2/12/97	1.5	APCL	<0.024	<0.021	<0.02	<0.022	<0.016	<0.02	<0.21	<0.025	<0.026	<0.027	
H05-SB05-2-S	SB05	2/12/97	6	APCL	<0.024	<0.021	<0.02	<0.022	<0.015	<0.02	<0.2	<0.025	<0.026	<0.027	
H05-SB05-3-S	SB05	2/12/97	6	APCL	<0.024	<0.021	<0.02	<0.022	<0.016	<0.02	<0.21	<0.025	<0.026	<0.027	
H05-SD01-1-S	SD01	3/3/97	0.5	APCL	<0.72	<2.9	<3.1	<0.88	<0.83	<0.61	<0.83	<2.7	<0.44	<0.77	<0.55
H05-SS01-1-S	SS01	2/18/97	0	APCL	<0.023	<0.02	<0.019	<0.019	<0.021	<0.015	<0.019	<0.2	<0.024	<0.025	<0.026
H05-SS02-1-S	SS02	2/18/97	0	APCL	<0.024	<0.021	<0.02	<0.022	<0.016	<0.02	<0.21	<0.025	<0.026	<0.027	
H05-SS03-1-S	SS03	2/18/97	0	APCL	<0.024	<0.021	<0.019	<0.019	<0.022	<0.015	<0.019	<0.2	<0.025	<0.026	<0.027
H05-SS04-1-S	SS04	2/18/97	0	APCL	<0.024	<0.021	<0.02	<0.022	<0.016	<0.02	<0.21	<0.025	<0.026	<0.027	
H05-SS05-1-S	SS05	3/3/97	0.5	APCL	<0.014	<0.058	<0.058	<0.018	<0.017	<0.012	<0.017	<0.054	0.011	<0.011	<0.011
H05-SS05-2-S	SS05	3/3/97	0.5	APCL	<0.015	<0.059	<0.059	<0.018	<0.017	<0.012	<0.017	<0.055	<0.009	<0.016	<0.011
H05-SS06-1-S	SS06	3/3/97	1	APCL	<0.015	<0.06	<0.063	<0.018	<0.017	<0.012	<0.017	<0.055	<0.009	<0.016	<0.011
H05-SS07-1-S	SS07	3/3/97	0.5	APCL	<0.014	<0.059	<0.062	<0.018	<0.017	<0.012	<0.017	<0.054	0.031	<0.016	<0.011
H05-SS08-1-S	SS08	3/3/97	0.5	APCL	<0.015	<0.059	<0.063	<0.018	<0.017	<0.012	<0.017	<0.055	<0.009	<0.016	<0.011

Note:

NA = Not analyzed.
NE = Not established.

SVOCs
Method 8270B (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	mg/kg							
05-SB01-1-S	SB01	2/12/97	2	APCL	<0.027	<0.09	<0.025	<0.021	<0.018	<0.022	<0.017	<0.024
05-SB01-2-S	SB01	2/12/97	6.5	APCL	<0.028	<0.1	<0.026	<0.022	<0.019	<0.023	<0.018	<0.025
05-SB01-3-S	SB01	2/12/97	11.5	APCL	<0.029	<0.1	<0.027	<0.022	<0.019	<0.023	<0.018	<0.026
05-SB02-1-S	SB02	2/12/97	1.5	APCL	<0.028	<0.1	<0.026	<0.021	<0.018	<0.022	<0.017	<0.024
05-SB02-2-S	SB02	2/12/97	6	APCL	<0.027	<0.097	<0.025	<0.021	<0.018	<0.022	<0.017	<0.024
05-SB03-1-S	SB03	2/12/97	1.5	APCL	<0.027	<0.098	<0.025	<0.021	<0.018	<0.022	<0.017	<0.024
05-SB03-2-S	SB03	2/12/97	6.5	APCL	<0.026	<0.09	<0.024	<0.02	<0.017	<0.021	<0.019	<0.023
05-SB04-1-S	SB04	2/12/97	2	APCL	<0.028	<0.1	<0.026	<0.021	<0.018	<0.022	<0.017	<0.024
05-SB04-2-S	SB04	2/12/97	5.5	APCL	<0.027	<0.097	<0.025	<0.021	<0.018	<0.022	<0.017	<0.024
05-SB04-3-S	SB04	2/12/97	5.5	APCL	<0.027	<0.097	<0.025	<0.021	<0.018	<0.022	<0.017	<0.024
05-SS05-1-S	SS05	2/18/97	1.5	APCL	<0.027	<0.09	<0.025	<0.021	<0.018	<0.022	<0.017	<0.023
05-SS05-2-S	SS05	2/12/97	6	APCL	<0.027	<0.097	<0.025	<0.021	<0.018	<0.022	<0.016	<0.024
105-SB05-3-S	SB05	2/12/97	6	APCL	<0.027	<0.098	<0.025	<0.021	<0.018	<0.022	<0.017	<0.024
105-SD01-1-S	SD01	3/3/97	0.5	APCL	<4.6	<7.7	<1.1	<0.39	<0.83	<0.88	<0.77	<2.5
105-SS01-1-S	SS01	2/18/97	0	APCL	<0.026	<0.09	<0.024	<0.02	<0.017	<0.021	<0.019	<0.023
105-SS02-1-S	SS02	2/18/97	0	APCL	<0.027	<0.09	<0.025	<0.021	<0.018	<0.022	<0.017	<0.024
105-SS03-1-S	SS03	2/18/97	0	APCL	<0.027	<0.096	<0.025	<0.021	<0.017	<0.022	<0.016	<0.024
105-SS04-1-S	SS04	2/18/97	0	APCL	<0.027	<0.09	<0.025	<0.021	<0.018	<0.022	<0.017	<0.023
105-SS05-1-S	SS05	3/3/97	0.5	APCL	<0.09	<0.15	<0.022	<0.006	<0.017	<0.018	<0.015	<0.021
105-SS05-2-S	SS05	3/3/97	0.5	APCL	<0.094	<0.16	<0.022	<0.008	<0.017	<0.018	<0.016	<0.018
105-SS06-1-S	SS06	3/3/97	1	APCL	<0.094	<0.16	<0.022	<0.008	<0.017	<0.018	<0.016	<0.016
105-SS07-1-S	SS07	3/3/97	0.5	APCL	<0.093	<0.16	<0.022	<0.008	<0.017	<0.018	<0.016	<0.018
105-SS08-1-S	SS08	3/3/97	0.5	APCL	<0.094	<0.16	<0.022	<0.008	<0.017	<0.018	<0.016	<0.018

Notes:
NA = Not analyzed.
NE = Not established.

SVOCs
Method 8270B (APCL)

Sample ID	Location ID	Sample Date (dd/mm/yy)	Depth (feet)	Lab	Nitrobenzene	P-Dimethylaminosazobenzene	Penatachlorobenzeno	Penatachlorophenol	Phenacetylphen	Phenanthrene	Phenol	Phenamide	Pyrene
H05-SB01-1-S	SB01	2/12/97	2	APCL	<0.023	<0.08	<0.023	<0.022	<0.14	<0.025	<0.02	<0.062	<0.057
H05-SB01-2-S	SB01	2/12/97	6.5	APCL	<0.024	<0.083	<0.024	<0.023	<0.14	<0.026	<0.021	<0.06	<0.059
H05-SB01-3-S	SB01	2/12/97	11.5	APCL	<0.024	<0.085	<0.024	<0.023	<0.14	<0.027	<0.021	<0.066	<0.06
H05-SB02-1-S	SB02	2/12/97	1.5	APCL	<0.023	<0.081	<0.023	<0.022	<0.14	<0.026	<0.02	<0.063	<0.057
H05-SB02-2-S	SB02	2/12/97	6	APCL	<0.023	<0.079	<0.023	<0.022	<0.13	<0.025	<0.02	<0.061	<0.056
H05-SB03-1-S	SB03	2/12/97	1.5	APCL	<0.023	<0.079	<0.023	<0.022	<0.14	<0.025	<0.02	<0.062	<0.056
H05-SB03-2-S	SB03	2/12/97	6.5	APCL	<0.022	<0.07	<0.022	<0.021	<0.13	<0.024	<0.019	<0.06	<0.055
H05-SB04-1-S	SB04	2/12/97	2	APCL	<0.023	<0.081	<0.023	<0.022	<0.14	<0.026	<0.02	<0.063	<0.058
H05-SB04-2-S	SB04	2/12/97	5.5	APCL	<0.023	<0.079	<0.023	<0.022	<0.13	<0.025	<0.02	<0.061	<0.056
H05-SB04-3-S	SB04	2/12/97	5.5	APCL	<0.023	<0.078	<0.023	<0.022	<0.13	<0.025	<0.02	<0.061	<0.056
H05-SB05-1-S	SB05	2/12/97	1.5	APCL	<0.023	<0.08	<0.023	<0.022	<0.14	<0.025	<0.02	<0.062	<0.057
H05-SB05-2-S	SB05	2/12/97	6	APCL	<0.023	<0.078	<0.023	<0.022	<0.13	<0.025	<0.02	<0.061	<0.056
H05-SB05-3-S	SB05	2/12/97	6	APCL	<0.023	<0.079	<0.023	<0.022	<0.13	<0.025	<0.02	<0.061	<0.056
H05-SD01-1-S	SD01	3/3/97	0.5	APCL	<0.77	<2.4	<0.83	<0.55	<10	<0.72	<0.77	<0.66	<2.4
H05-SS01-1-S	SS01	2/18/97	0	APCL	<0.022	<0.08	<0.022	<0.021	<0.13	<0.024	<0.019	<0.06	<0.055
H05-SS02-1-S	SS02	2/18/97	0	APCL	<0.023	<0.08	<0.023	<0.022	<0.14	<0.025	<0.02	<0.062	<0.057
H05-SS03-1-S	SS03	2/18/97	0	APCL	<0.023	<0.078	<0.023	<0.022	<0.13	<0.025	<0.02	<0.061	<0.056
H05-SS04-1-S	SS04	2/18/97	0	APCL	<0.023	<0.08	<0.023	<0.022	<0.14	<0.025	<0.02	<0.062	<0.057
H05-SS05-1-S	SS05	3/3/97	0.5	APCL	<0.015	<0.046	<0.017	<0.011	<0.21	<0.014	<0.015	<0.013	<0.047
H05-SS05-2-S	SS05	3/3/97	0.5	APCL	<0.016	<0.049	<0.017	<0.011	<0.21	<0.015	<0.019	<0.013	<0.048
H05-SS06-1-S	SS06	3/3/97	1	APCL	<0.016	<0.049	<0.017	<0.011	<0.21	<0.015	<0.016	<0.013	<0.048
H05-SS07-1-S	SS07	3/3/97	0.5	APCL	<0.016	<0.049	<0.017	<0.011	<0.21	<0.014	<0.018	<0.013	<0.048
H05-SS08-1-S	SS08	3/3/97	0.5	APCL	<0.016	<0.049	<0.017	<0.011	<0.21	<0.015	<0.016	<0.013	<0.048

Notes:
NA = Not analyzed.
NE = Not established

Explosives
Method 8330 (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	L _{2B}	Nitrobenzene								
					1,3,5-Tinitrobenzene	1,3-Dinitrobenzene	2,4,6-Trinitrotoluene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Nitrotoluene	3-Nitrotoluene	4-Nitrotoluene	HMX
105-SB01-1-S	SB01	2/12/97	2	APCL	<0.014	<0.026	<0.042	<0.027	<0.059	<0.076	<0.065	<0.049	<0.058
105-SB01-2-S	SB01	2/12/97	6.5	APCL	<0.014	<0.027	<0.044	<0.028	<0.061	<0.079	<0.068	<0.05	<0.06
105-SB01-3-S	SB01	2/12/97	11.5	APCL	<0.014	<0.028	<0.045	<0.029	<0.062	<0.08	<0.069	<0.051	<0.061
105-SB02-1-S	SB02	2/12/97	1.5	APCL	<0.014	<0.027	<0.043	<0.028	<0.06	<0.077	<0.066	<0.049	<0.059
105-SB02-2-S	SB02	2/12/97	6	APCL	<0.013	<0.026	<0.041	<0.027	<0.058	<0.074	<0.064	<0.074	<0.057
105-SB03-1-S	SB03	2/12/97	1.5	APCL	<0.014	<0.026	<0.042	<0.027	<0.058	<0.075	<0.065	<0.048	<0.057
105-SB03-2-S	SB03	2/12/97	6.5	APCL	<0.013	<0.025	<0.041	<0.026	<0.057	<0.073	<0.063	<0.047	<0.056
105-SB04-1-S	SB04	2/12/97	2	APCL	<0.014	<0.027	<0.043	<0.028	<0.06	<0.077	<0.066	<0.049	<0.059
105-SB04-2-S	SB04	2/12/97	5.5	APCL	<0.013	<0.026	<0.041	<0.027	<0.058	<0.074	<0.064	<0.048	<0.057
105-SB04-3-S	SB04	2/12/97	5.5	APCL	<0.013	<0.026	<0.041	<0.027	<0.058	<0.074	<0.064	<0.047	<0.057
105-SB05-1-S	SB05	2/12/97	1.5	APCL	<0.014	<0.026	<0.042	<0.027	<0.059	<0.076	<0.065	<0.076	<0.048
105-SB05-2-S	SB05	2/12/97	6	APCL	<0.013	<0.026	<0.041	<0.027	<0.058	<0.074	<0.064	<0.074	<0.057
105-SS05-3-S	SB05	2/12/97	6	APCL	<0.013	<0.026	<0.041	<0.027	<0.058	<0.074	<0.064	<0.074	<0.057
105-SD01-1-S	SD01	3/3/97	0.5	APCL	<0.34	<0.18	<0.3	<0.23	<0.24	<0.47	<0.34	<0.4	<0.31
105-SS01-1-S	SS01	2/18/97	0	APCL	<0.062	<0.033	<0.056	<0.042	<0.045	<0.086	<0.062	<0.073	<0.058
105-SS02-1-S	SS02	2/18/97	0	APCL	<0.064	<0.035	<0.058	<0.041	<0.027	<0.058	<0.075	<0.064	<0.048
105-SS03-1-S	SS03	2/18/97	0	APCL	<0.063	<0.034	<0.056	<0.042	<0.045	<0.087	<0.063	<0.074	<0.058
105-SS04-1-S	SS04	2/18/97	0	APCL	<0.064	<0.035	<0.058	<0.043	<0.046	<0.089	<0.064	<0.075	<0.066
105-SS05-1-S	SS05	3/3/97	0.5	APCL	<0.067	<0.036	<0.061	<0.045	<0.048	<0.094	<0.067	<0.079	<0.063
105-SS05-2-S	SS05	3/3/97	0.5	APCL	<0.068	<0.037	<0.062	<0.046	<0.049	<0.095	<0.068	<0.081	<0.071
105-SS06-1-S	SS06	3/3/97	1	APCL	<0.069	<0.037	<0.062	<0.046	<0.049	<0.096	<0.069	<0.081	<0.064
105-SS07-1-S	SS07	3/3/97	0.5	APCL	<0.068	<0.037	<0.061	<0.045	<0.049	<0.094	<0.068	<0.08	<0.063

 Es
 E) Metho
 APCL)

Sample ID	Location ID	Date	Depth (feet)	Lab	HMX								
					1,3-Dinitrobenzene	1,3,5-Trinitrobenzene	2,4,6-Trinitrotoluene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Nitrotoluene	3-Nitrotoluene	4-Nitrotoluene	Nitrobenzene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H05-SS08-1-S	SS08	3/3/97	0.5	APCL	<0.068	<0.037	<0.061	<0.046	<0.049	<0.095	<0.068	<0.08	<0.064
					23	23	23	23	23	23	23	23	<0.07
Analyses													
Detections					0	0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0	0	0	0
HWAD - PCG					4	8	233	2.6	80	800	800	4000	40
HWAD - PCG Hits					0	0	0	0	0	0	0	0	0

Notes:

NA = Not analyzed.

NE = Not established.

Explosives
Method 8330 (APCL)

Sample ID	Location ID	Date (feet)	g	DX	ΣY	Tetryl		mg/kg		mg/kg	
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
4-Amino-2,6-dinitrotoluene											
H05-SB01-1-S	SB01	2/12/97	2	APCL	<0.053	<0.047	NA	NA	NA	NA	NA
H05-SB01-2-S	SB01	2/12/97	6.5	APCL	<0.055	<0.049	NA	NA	NA	NA	NA
H05-SB01-3-S	SB01	2/12/97	11.5	APCL	<0.056	<0.05	NA	NA	NA	NA	NA
H05-SB02-1-S	SB02	2/12/97	1.5	APCL	<0.053	<0.048	NA	NA	NA	NA	NA
H05-SB02-2-S	SB02	2/12/97	.6	APCL	<0.052	<0.047	NA	NA	NA	NA	NA
H05-SB03-1-S	SB03	2/12/97	1.5	APCL	<0.052	<0.047	NA	NA	NA	NA	NA
H05-SB03-2-S	SB03	2/12/97	6.5	APCL	<0.051	<0.046	NA	NA	NA	NA	NA
H05-SB04-1-S	SB04	2/12/97	2	APCL	<0.053	<0.048	NA	NA	NA	NA	NA
H05-SB04-2-S	SB04	2/12/97	5.5	APCL	<0.052	<0.046	NA	NA	NA	NA	NA
H05-SB04-3-S	SB04	2/12/97	5.5	APCL	<0.052	<0.046	NA	NA	NA	NA	NA
H05-SB05-1-S	SB05	2/12/97	1.5	APCL	<0.053	<0.047	NA	NA	NA	NA	NA
H05-SB05-2-S	SB05	2/12/97	6	APCL	<0.052	<0.046	NA	NA	NA	NA	NA
H05-SD05-3-S	SB05	2/12/97	6	APCL	<0.052	<0.047	NA	NA	NA	NA	NA
H05-SD01-1-S	SD01	3/3/97	0.5	APCL	<0.24	<0.31	NA	NA	NA	NA	NA
H05-SS01-1-S	SS01	2/18/97	0	APCL	<0.044	<0.057	NA	NA	NA	NA	NA
H05-SS02-1-S	SS02	2/18/97	0	APCL	<0.045	<0.059	NA	NA	NA	NA	NA
H05-SS03-1-S	SS03	2/18/97	0	APCL	<0.044	<0.057	NA	NA	NA	NA	NA
H05-SS04-1-S	SS04	2/18/97	0	APCL	<0.045	<0.059	NA	NA	NA	NA	NA
H05-SS05-1-S	SS05	3/3/97	0.5	APCL	<0.047	<0.062	NA	NA	NA	NA	NA
H05-SS05-2-S	SS05	3/3/97	0.5	APCL	<0.048	<0.063	NA	NA	NA	NA	NA
H05-SS06-1-S	SS06	3/3/97	1	APCL	<0.048	<0.063	NA	NA	NA	NA	NA
H05-SS07-1-S	SS07	3/3/97	0.5	APCL	<0.048	<0.062	NA	NA	NA	NA	NA

Methocarbamol (APCL)

100

NOTES.

NA = Not analyzed.
NE = Not established.

Explosives
Method 8330M (APCL)

Sample ID	Location ID	Date	Depth (feet)	Lab	Picric Acid mg/kg
H05-SB01-1-S	SB01	2/12/97	2	APCL	<0.0004
H05-SB01-2-S	SB01	2/12/97	6.5	APCL	<0.00042
H05-SB01-3-S	SB01	2/12/97	11.5	APCL	<0.00042
H05-SB02-1-S	SB02	2/12/97	1.5	APCL	<0.0004
H05-SB02-2-S	SB02	2/12/97	6	APCL	<0.00039
H05-SB03-1-S	SB03	2/12/97	1.5	APCL	<0.0004
H05-SB03-2-S	SB03	2/12/97	6.5	APCL	<0.00039
H05-SB04-1-S	SB04	2/12/97	2	APCL	<0.0004
H05-SB04-2-S	SB04	2/12/97	5.5	APCL	<0.00039
H05-SB04-3-S	SB04	2/12/97	5.5	APCL	<0.00039
H05-SB05-1-S	SB05	2/12/97	1.5	APCL	<0.0004
H05-SB05-2-S	SB05	2/12/97	6	APCL	<0.00039
H05-SB05-3-S	SB05	2/12/97	6	APCL	<0.00039
H05-SD01-1-S	SD01	3/3/97	0.5	APCL	<3.8
H05-SS01-1-S	SS01	2/18/97	0	APCL	<0.69
H05-SS02-1-S	SS02	2/18/97	0	APCL	<0.72
H05-SS03-1-S	SS03	2/18/97	0	APCL	<0.7
H05-SS04-1-S	SS04	2/18/97	0	APCL	<0.71
H05-SS05-1-S	SS05	3/3/97	0.5	APCL	<0.75
H05-SS05-2-S	SS05	3/3/97	0.5	APCL	<0.76
H05-SS06-1-S	SS06	3/3/97	1	APCL	<0.76
H05-SS07-1-S	SS07	3/3/97	0.5	APCL	<0.75
H05-SS08-1-S	SS08	3/3/97	0.5	APCL	<0.76
<hr/>					
Analyses					23
Detections					0
Minimum Concentration					0
Maximum Concentration					0
<hr/>					
HWAD - PCG					NE
HWAD - PCG Hits					NE
<hr/>					

Notes:

NA = Not analyzed.

NE = Not established.

RDX Test Kit
Method 8510 (Tt Field)

Sample ID	Location I	Sample Date	Depth (feet)	Lab	RDX	RDX-Dup	RDX (Rerun)
					mg/kg		
H05-SB01-1-S	SB01.	2/12/97	2	Tt Field	1.38	NA	NA
H05-SB02-1-S	SB02	2/12/97	1.5	Tt Field	1.33	NA	NA
H05-SB03-1-S	SB03	2/12/97	1.5	Tt Field	< 0.8	NA	NA
H05-SB04-1-S	SB04	2/12/97	2	Tt Field	< 0.8	NA	NA
H05-SB05-1-S	SB05	2/12/97	1.5	Tt Field	2.67	NA	NA
H05-SS01-1-S	SS01	2/18/97	0	Tt Field	3.8	NA	NA
H05-SS02-1-S	SS02	2/18/97	0	Tt Field	6.3	NA	NA
H05-SS03-1-S	SS03	2/18/97	0	Tt Field	0.22	NA	NA
H05-SS04-1-S	SS04	2/18/97	0	Tt Field	0.04	NA	NA
H05-SS05-1-S	SS05	3/3/97	0.5	Tt Field	< 0.8	NA	NA
H05-SS05-2-S	SS05	3/3/97	0.5	Tt Field	< 0.8	NA	NA
H05-SS06-1-S	SS06	3/3/97	1	Tt Field	1.46	NA	NA
H05-SS07-1-S	SS07	3/3/97	0.5	Tt Field	< 0.8	NA	NA
H05-SS08-1-S	SS08	3/3/97	0.5	Tt Field	0.84	NA	NA
<hr/>							
Analyses					14	0	0
Detections					9	0	0
Minimum Concentration					0.04	0	0
Maximum Concentration					6.3	0	0
<hr/>							
HWAD - PCG					64	64	64
HWAD - PCG Hits					0	0	0

Notes:

NA = Not analyzed.

NE = Not established.

TNT Test Kit
Method 8515 (Tt Field)

Sample ID	Location ID	Sample Depth		Lab	2,4,6-TNT	2,4,6-TNT-Dup	2,4,6-TNT (Rerun)
		Date	(feet)				
				mg/kg	mg/kg	mg/kg	mg/kg
H05-SB01-1-S	SB01	2/12/97	2	Tt Field	< 0.8	NA	NA
H05-SB02-1-S	SB02	2/12/97	1.5	Tt Field	< 0.8	NA	NA
H05-SB03-1-S	SB03	2/12/97	1.5	Tt Field	< 0.8	NA	NA
H05-SB04-1-S	SB04	2/12/97	2	Tt Field	< 0.8	NA	NA
H05-SB05-1-S	SB05	2/12/97	1.5	Tt Field	< 0.8	NA	NA
H05-SS01-1-S	SS01	2/18/97	0	Tt Field	< 0.8	NA	NA
H05-SS02-1-S	SS02	2/18/97	0	Tt Field	11.4	NA	< 0.8
H05-SS03-1-S	SS03	2/18/97	0	Tt Field	< 0.8	NA	NA
H05-SS04-1-S	SS04	2/18/97	0	Tt Field	< 0.8	NA	NA
H05-SS05-1-S	SS05	3/3/97	0.5	Tt Field	< 0.8	NA	NA
H05-SS05-2-S	SS05	3/3/97	0.5	Tt Field	< 0.8	NA	NA
H05-SS06-1-S	SS06	3/3/97	1	Tt Field	< 0.8	NA	NA
H05-SS07-1-S	SS07	3/3/97	0.5	Tt Field	< 0.8	NA	NA
H05-SS08-1-S	SS08	3/3/97	0.5	Tt Field	< 0.8	NA	NA
Analyses					14	0	1
Detections					1	0	0
Minimum Concentration					11.4	0	0
Maximum Concentration					11.4	0	0
HWAD - PCG					233	233	233
HWAD - PCG Hits					0	0	0

Notes:

NA = Not analyzed.

NE = Not established.

Table 3-1
Summary of Analyses for Soil Samples at SWMU H05

Sample ID	Sample Date	Depth (feet)	Media	Volatile Organics	Moisture
				8260A APCL	ASTM D 2216 APCL
H05-TP01	TPBton	11/19/1999	8	SOIL	X X
H05-TP02	TPWest	11/19/1999	6	SOIL	X X
H05-TP03	TPSouth	11/19/1999	6	SOIL	X X
H05-TP04	TPNorth	11/19/1999	6	SOIL	X X
H05-TP05	TPEast	11/19/1999	6	SOIL	X X

Volatile Org. Compounds
Method 826m (APCI)

Sample ID	Location ID	Sample Date	Depth	n-Propylbenzene	Naphthalene	α -Xylene	sec-Butylbenzene	Syrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethylene
H05-TP01	TPBttm	11/19/1999	8	<0.0014	<0.00073	<0.0078	<0.00084	<0.0013	<0.0017	<0.00075	<0.00098
H05-TP02	TPWest	11/19/1999	6	<0.0015	<0.00076	<0.00082	<0.00087	<0.0014	<0.0017	<0.00079	<0.001
H05-TP03	TPSouth	11/19/1999	6	<0.0015	<0.00075	<0.00081	<0.00086	<0.0014	<0.0017	<0.00077	<0.001
H05-TP04	TPNorth	11/19/1999	6	<0.0015	<0.00075	<0.0008	<0.00085	<0.0014	<0.0017	<0.00077	<0.001
H05-TP05	TPEast	11/19/1999	6	<0.0015	<0.00074	<0.00079	<0.00085	<0.0014	<0.0017	<0.00076	<0.00099
Analyses											
Detections											
Minimum Concentration											
Maximum Concentration											
HWAD - PCG											
HWAD - PCG Hits											
NE = not established											

Volatile Org.
Compounds
Method 8260n (APCL)

Sample ID	Location ID	Depth	Depth	Trichloroethylene	Trichlorofluoromethane	Vinyl chloride	1,1,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane
H05-TP01	TPEastn	11/19/1999	8	<0.00084	<0.001	<0.00082	<0.002	<0.00033	<0.00075
H05-TP02	TPWest	11/19/1999	6	<0.00087	<0.0011	<0.00085	<0.002	<0.00034	<0.00079
H05-TP03	TPSouth	11/19/1999	6	<0.00086	<0.001	<0.00084	<0.002	<0.00034	<0.00077
H05-TP04	TPNorth	11/19/1999	6	<0.00085	<0.001	<0.00083	<0.002	<0.00034	<0.00077
H05-TP05	TPEast	11/19/1999	6	<0.00085	<0.001	<0.00083	<0.002	<0.00033	<0.00076
Analyses		5	5	5	5	5	5	5	5
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD - PCG	NE	10	24000	24000	NE	7200	35	NE	NE
HWAD - PCG Hits	NE	0	0	0	NE	0	0	NE	NE
NE = not established									

Volatile Org. Compounds
Method 8260A (APCI)

Sample ID	Location ID	Sample Date	Depth	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,1-Dichloropropane	1,2,4-Trichlorobenzene	1,2,4-Triethylbenzene	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
H05-TP01	TPBttm	11/19/1999	8	<0.00098	<0.0014	<0.0022	<0.00082	<0.00089	<0.00081	<0.00055	<0.00097
H05-TP02	TPWest	11/19/1999	6	<0.001	<0.0015	<0.0023	<0.00085	<0.00092	<0.00084	<0.00057	<0.001
H05-TP03	TPSouth	11/19/1999	6	<0.001	<0.0015	<0.0022	<0.00084	<0.00091	<0.00083	<0.00056	<0.001
H05-TP04	TPNorth	11/19/1999	6	<0.001	<0.0015	<0.0022	<0.00083	<0.0009	<0.00082	<0.00056	<0.00099
H05-TP05	TPEast	11/19/1999	6	<0.00099	<0.0015	<0.0022	<0.00083	<0.0009	<0.00082	<0.00056	<0.00098
				5	5	5	5	5	5	5	5
Analyses				0	0	0	0	0	0	0	0
Detections				0	0	0	0	0	0	0	0
Minimum Concentration				0	0	0	0	0	0	0	0
Maximum Concentration				0	0	0	0	0	0	0	0
				NE	NE	NE	NE	NE	0.008	7200	NE
HVAD - PCG				NE	NE	NE	NE	NE	0	0	NE
HVAD - PCG Hits				NE	NE	NE	NE	NE	0	0	NE
NE = not established											

Volatile Organic Compounds
Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth	1,2-Dichloropropane	1,3-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyltoluene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H05-TP01	TPBttm	11/19/1999	8	<0.00084	<0.0011	<0.00038	<0.0014	<0.00091	<0.0012	<0.0011	<0.001	<0.0011
H05-TP02	TPWest	11/19/1999	6	<0.00087	<0.0012	<0.0004	<0.0015	<0.00095	<0.0013	<0.0012	<0.0011	<0.0012
H05-TP03	TPSouth	11/19/1999	6	<0.00086	<0.0012	<0.00039	<0.0015	<0.00093	<0.0013	<0.0012	<0.001	<0.0012
H05-TP04	TPNorth	11/19/1999	6	<0.00085	<0.0012	<0.00039	<0.0015	<0.00093	<0.0013	<0.0012	<0.001	<0.0012
H05-TP05	TPEast	11/19/1999	6	<0.00085	<0.0012	<0.00039	<0.0015	<0.00092	<0.0013	<0.0012	<0.001	<0.0012
<i>Analyses</i>												
<i>Detections</i>												
<i>Minimum Concentration</i>												
<i>Maximum Concentration</i>												
HWAD - PCG				NE	NE	NE	NE	150	NE	NE	NE	NE
HWAD - PCG Hits				NE	NE	NE	NE	0	NE	NE	NE	NE

NE = not established

**Volatile Organic Compounds
Method 8260A (APCL)**

Volatile Organic Compounds
Method 826uA (APCL)

Sample ID	Location ID	Sample Date	Depth	Chloroform	Chloromethane	Cis-1,2-Dichloroethene	Dibromochloropropane	Dibromoethane	Dibromomethane	Dichlorodifluoromethane	Ethylibenzene
H05-TP01	TPBttm	11/19/1999	8	<0.00056	<0.002	<0.0011	<0.0007	<0.0005	<0.0033	<0.0028	<0.001
H05-TP02	TPWest	11/19/1999	6	<0.00058	<0.002	<0.0012	<0.00073	<0.00052	<0.0034	<0.0029	<0.0011
H05-TP03	TPSouth	11/19/1999	6	<0.00057	<0.002	<0.0012	<0.00072	<0.00051	<0.0034	<0.0029	<0.001
H05-TP04	TPNorth	11/19/1999	6	<0.00057	<0.002	<0.0012	<0.00072	<0.0005	<0.0034	<0.0028	<0.001
H05-TP05	TPEast	11/19/1999	6	<0.00056	<0.002	<0.0012	<0.00071	<0.0005	<0.0033	<0.0028	<0.001
<hr/>											
Analyses		5	5	5	5	5	5	5	5	5	5
Detections		0	0	0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0	0	0
HWAD - PCG		120	538	NE	NE	83	NE	800	16000	8000	
HWAD - PCG Hits		0	0	NE	NE	0	NE	0	0	0	0

NE = not established

Volatile Organic Compounds
Method 8260a (APCL)

Sample ID	Location ID	Sample Date	Depth	mg/kg	Hexachlorobutadiene	mg/kg	Isopropylbenzene	mg/kg	Methylene chloride	mg/kg	MTBE	mg/kg	n-Butylbenzene	mg/kg
H05-TP01	TPBttm	11/19/1999	8	<0.0012	<0.00077	<0.001	0.002	<0.0017	<0.00094	<0.0017	<0.00094	<0.00094	<0.00094	<0.00094
H05-TP02	TPWest	11/19/1999	6	<0.0013	<0.00081	<0.0011	0.003	<0.0017	<0.00098	<0.0017	<0.00098	<0.00098	<0.00098	<0.00098
H05-TP03	TPSouth	11/19/1999	6	<0.0013	<0.0008	<0.001	0.003	<0.0017	<0.00096	<0.0017	<0.00096	<0.00096	<0.00096	<0.00096
H05-TP04	TPNorth	11/19/1999	6	<0.0013	<0.00079	<0.001	0.003	<0.0017	<0.00096	<0.0017	<0.00096	<0.00096	<0.00096	<0.00096
H05-TP05	TPEast	11/19/1999	6	<0.0013	<0.00078	<0.001	0.003	<0.0017	<0.00095	<0.0017	<0.00095	<0.00095	<0.00095	<0.00095
Analyses				5	5	5	5	5	5	5	5	5	5	5
Detections				0	0	0	5	0	0	0	0	0	0	0
Minimum Concentration				0	0	0	0	0.002	0	0	0	0	0	0
Maximum Concentration				0	0	0	0	0.003	0	0	0	0	0	0
HWAD - PCG				NE	NE	160000	4800	NE	NE	NE	NE	NE	NE	NE
HWAD - PCG Hits				NE	NE	0	0	0	0	0	0	0	0	0

NE = not established

C

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G

Nitrogen Compounds
USEPA Methods 350.2, 351.3, and 353.3 (APCL)

Sample ID	Location ID	Sample Date	Depth	Nitrate plus Nitrite	Ammonia as Nitrogen	Total Kjeldahl Nitrogen
				mg/l	mg/l	mg/l
IRPMW45-021500-W	IRPMW45	2/15/2000	112	<0.062	0.2 ^J	
IRPMW45-051600-W	IRPMW45	5/16/2000	112.9	1.3	<0.062	0.2 ^J
IRPMW45-081500-W	IRPMW45	8/15/2000	118	1.2	0.2 ^J	0.55
IRPMW45-111400-W	IRPMW45	11/14/2000	115	1.8	0.1 ^J	0.2
IRPMW46-021500-W	IRPMW46	2/15/2000	115.4	NA	0.07 ^J	0.2 ^J
IRPMW46-051600-W	IRPMW46	5/16/2000	110.4	2.35	<0.062	0.2
IRPMW46-081500-W	IRPMW46	8/15/2000	117	1.4	0.1 ^J	0.2 ^J
IRPMW46A-111400-W	IRPMW46	11/14/2000	112	2.22	<0.062	0.2
IRPMW46B-111400-W	IRPMW46	11/14/2000	112	2.1	<0.062	0.3
IRPMW47-021500-W	IRPMW47	2/15/2000	112	NA	<0.062	0.3
IRPMW47-051600-W	IRPMW47	5/16/2000	112	1.9	<0.062	0.3
IRPMW47-081500-W	IRPMW47	8/15/2000	116	1.5	<0.062	0.3
IRPMW47-111400-W	IRPMW47	11/14/2000	112	2.23	<0.062	0.3
IRPMW48-021600-W	IRPMW48	2/16/2000	117.8	NA	0.1 ^J	0.2
IRPMW48-051600-W	IRPMW48	5/16/2000	117	1.2	<0.062	0.1 ^J
IRPMW48-081500-W	IRPMW48	8/15/2000	124	0.72	0.07 ^J	0.3
IRPMW48-111400-W	IRPMW48	11/14/2000	120	1.5	0.1 ^J	0.2

Analyses	13	17	17
Detections	13	7	17
Minimum Concentration	0.72	0.07	0.1
Maximum Concentration	2.35	0.2	0.55
HWAD - GW Action Level	1	NE	NE
HWAD - GW Action Level Hits	12	NE	NE

Notes:

NA - not analyzed

NE - not established

USEPA Methods 6010u and 7471A (APCL)

Sample ID	Location ID	Sample Date	Depth	Arsenic, Total		Barium, Total		Cadmium, Dissolved		Chromium, Total		Iron, Total		Lead, Dissolved		Magnesium, Total	
				/ugn	/ugn	/ugn	/ugn	/ugn	/ugn	/ugn	/ugn	/ugn	/ugn	/ugn	/ugn	/ugn	/ugn
IRPMW45-021500-W	IRPMW45	2/15/2000	112	52.5	53.5	26.7	27.8	<0.24	0.39	35200	1.7	3.2	<8.2	<1.3	<1.3	282	
IRPMW46-021500-W	IRPMW46	2/15/2000	115.4	95.1	100	23.8	21.4	0.46	0.62	32600	3.2	2.2	23.3	1.9	<1.3	225	
IRPMW47-021500-W	IRPMW47	2/15/2000	112	97.8	95.4	21.5	19.6	1.9	0.3	26500	2.1	2.4	52.3	<1.3	<1.3	396	
IRPMW48-021600-W	IRPMW48	2/16/2000	117.8	133	136	25.5	25.2	0.25	0.96	29700	4.3	2.2	43.4	3	<1.3	202	

Analyses	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Detections	4	4	4	4	3	4	4	4	4	4	4	3	2	0	4	4	
Minimum Concentration	52.5	53.5	21.5	19.6	0.25	0.3	26500	1.7	2.2	23.3	1.9	0	202				
Maximum Concentration	133	136	26.7	27.8	1.9	0.96	35200	4.3	3.2	52.3	3	0	396				
HWAD - GW Action Level	50	50	2000	2000	5	5	NE	100	100	11000	15	15	NE				
HWAD - GW Action Level Hits	4	4	0	0	0	0	NE	0	0	0	0	0	0	0	0	0	

Notes:

NA - not analyzed

NE - not established

USEPA Methods 6001u, and 7471A (APCL)

Sample ID	Location ID	Sample Date	Depth	Mercury, Total	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Total
IRPMW45-021500-W	IRPMW45	2/15/2000	112	<0.2	8220	<2	<1.1	<1.1
IRPMW46-021500-W	IRPMW46	2/15/2000	115.4	<0.2	8020	3.9	3.2	1.5
IRPMW47-021500-W	IRPMW47	2/15/2000	112	<0.2	7180	3.8	<2	<1.1
IRPMW48-021600-W	IRPMW48	2/16/2000	117.8	<0.2	6890	2.6	3.2	<1.1

Analyses	4	4	4	4	4	4	4	4
Detections	0	1	4	3	2	1	0	4
Minimum Concentration	0	0.2	6890	2.6	3.2	1.5	0	207000
Maximum Concentration	0	0.2	8220	3.9	3.2	1.5	0	261000
HWAD - GW Action Level	2	2	NE	180	180	180	180	NE
HWAD - GW Action Level Hits	0	0	NE	0	0	0	0	NE

Notes:

NA - not analyzed

NE - not established

Volatile Org. Compounds
USEPA Method 260A (APCL)

Sample ID	Location ID	Sample Date	Depth	1,1,1-Trichloroethane	1,1,2-Tetrachloroethane	1,1-Dichloroethane	1,2-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2,4-Trichlorobiphenyl
IRPMW45-021500-W	IRPMW45	2/15/2000	112	<0.26	<0.12	<0.24	<0.17	<0.76	<0.28	<0.3
IRPMW45-051600-W	IRPMW45	5/16/2000	112.9	<0.26	<0.12	<0.24	<0.17	<0.76	<0.28	<1.2
IRPMW45-081500-W	IRPMW45	8/15/2000	118	<0.26	<0.12	<0.24	<0.17	<0.76	<0.28	<0.3
IRPMW45-111400-W	IRPMW45	11/14/2000	115	<0.092	<0.047	<0.065	<0.078	<0.056	<0.038	<0.14
IRPMW46-021500-W	IRPMW46	2/15/2000	115.4	<0.45	<0.19	<0.27	<0.25	<0.32	<0.27	<0.32
IRPMW46-051600-W	IRPMW46	5/16/2000	110.4	<0.26	<0.12	<0.24	<0.17	<0.76	<0.28	<0.3
IRPMW46-081500-W	IRPMW46	8/15/2000	117	<0.26	<0.12	<0.24	<0.17	<0.76	<0.28	<0.3
IRPMW46A-111400-W	IRPMW46A	11/14/2000	112	<0.092	<0.047	<0.065	<0.078	<0.056	<0.038	<0.14
IRPMW46B-111400-W	IRPMW46	11/14/2000	112	<0.092	<0.047	<0.065	<0.078	<0.056	<0.038	<0.14
IRPMW47-021500-W	IRPMW47	2/15/2000	112	<0.26	<0.12	<0.24	<0.17	<0.76	<0.28	<0.3
IRPMW47-051600-W	IRPMW47	5/16/2000	112	<0.26	<0.12	<0.24	<0.17	<0.76	<0.28	<0.3
IRPMW47-081500-W	IRPMW47	8/15/2000	116	<0.26	<0.12	<0.24	<0.17	<0.76	<0.28	<0.3
IRPMW47-111400-W	IRPMW47	11/14/2000	112	<0.092	<0.047	<0.065	<0.078	<0.056	<0.038	<0.14
IRPMW48-021600-W	IRPMW48	2/16/2000	117.8	<0.26	<0.12	<0.24	<0.17	<0.76	<0.28	<1.2
IRPMW48-051600-W	IRPMW48	5/16/2000	117	<0.26	<0.12	<0.24	<0.17	<0.76	<0.28	<1.2
IRPMW48-081500-W	IRPMW48	8/15/2000	124	<0.26	<0.12	<0.24	<0.17	<0.76	<0.28	<1.2
IRPMW48-111400-W	IRPMW48	11/14/2000	120	<0.092	<0.047	<0.065	<0.078	<0.056	<0.038	<0.14
			17	17	17	17	17	17	17	17
Analyses										
Detectors				0	0	0	0	0	0	0
Minimum Concentration				0	0	0	0	0	0	0
Maximum Concentration				0	0	0	0	0	0	0
HWAD - GW Action Level				0.43	200	0.055	5	810	7	NE
HWAD - GW Action Level Hits				0	0	0	0	0	0	0
Notes:				NA - not analyzed	NE - not established					

Volatile Org. Compounds
USEPA Method 0260A (APCL)

Sample ID	Location ID	Depth	Sample Date	1,2-Dibromoethane	1,2-Dichloropropane	1,3-Dichloropropane	1,4-Dichlorobenzene	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyltoluene
IRPMW45-021500-W	IRPMW45	2/15/2000	112	<0.25	<0.19	<0.87	<0.2	<0.17	<0.14	<0.18
IRPMW45-051600-W	IRPMW45	5/16/2000	112.9	<0.25	<0.19	<0.87	<0.2	<0.17	<0.14	<0.27
IRPMW45-081500-W	IRPMW45	8/15/2000	118	<0.25	<0.19	<0.87	<0.2	<0.17	<0.14	<0.27
IRPMW45-111400-W	IRPMW45	11/14/2000	115	<0.054	<0.14	<0.065	<0.035	<0.17	<0.13	<0.22
IRPMW46-021500-W	IRPMW46	2/15/2000	115.4	<0.24	<0.22	<0.19	<0.14	<0.24	<0.23	<0.27
IRPMW46-051600-W	IRPMW46	5/16/2000	110.4	<0.25	<0.19	<0.87	<0.2	<0.17	<0.12	<0.14
IRPMW46-081500-W	IRPMW46	8/15/2000	117	<0.25	<0.19	<0.87	<0.2	<0.17	<0.12	<0.14
IRPMW46A-111400-W	IRPMW46	11/14/2000	112	<0.054	<0.14	<0.065	<0.035	<0.17	<0.13	<0.07
IRPMW46B-111400-W	IRPMW46	11/14/2000	112	<0.054	<0.14	<0.065	<0.035	<0.17	<0.13	<0.07
IRPMW47-021500-W	IRPMW47	2/15/2000	112	<0.25	<0.19	<0.87	<0.2	<0.17	<0.12	<0.14
IRPMW47-051600-W	IRPMW47	5/16/2000	112	<0.25	<0.19	<0.87	<0.2	<0.17	<0.12	<0.14
IRPMW47-081500-W	IRPMW47	8/15/2000	116	<0.25	<0.19	<0.87	<0.2	<0.17	<0.12	<0.14
IRPMW47-111400-W	IRPMW47	11/14/2000	112	<0.054	<0.14	<0.065	<0.035	<0.17	<0.13	<0.07
IRPMW48-021600-W	IRPMW48	2/16/2000	117.8	<0.25	<0.19	<0.87	<0.2	<0.17	<0.12	<0.14
IRPMW48-051600-W	IRPMW48	5/16/2000	117	<0.25	<0.19	<0.87	<0.2	<0.17	<0.12	<0.14
IRPMW48-081500-W	IRPMW48	8/15/2000	124	<0.25	<0.19	<0.87	<0.2	<0.17	<0.12	<0.14
IRPMW48-111400-W	IRPMW48	11/14/2000	120	<0.054	<0.14	<0.065	<0.035	<0.17	<0.13	<0.07
				17	17	17	17	17	17	17
Analyses										
Detections	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	0	0	0	0	0	0	0	0	0	0
Maximum Concentration	0	0	0	0	0	0	0	0	0	0
HWAD - GW Action Level	0.05	600	5	5	NE	17	NE	75	NE	120
HWAD - GW Action Level Hits	0	0	0	0	NE	0	NE	0	NE	NE

Notes:
NA - not analyzed
NE - not established

Volatile Org. Compounds
USEPA Method d260A (APCL)

Sample ID	Location ID	Sample Date	Depth	Benzene				Bromobenzene				Bromochloromethane				Chloroform				Chloroethylene				Chloromethane			
				ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
IRPMW45-021500-W	IRPMW45	2/15/2000	112	<0.08	<0.32	41.1	0.6 J	<0.3	<0.88	<0.12	<0.16	<0.32	4.8	<0.35													
IRPMW45-051600-W	IRPMW45	5/16/2000	112.9	<0.08	<0.32	<1.1	0.6 J	<0.3	<0.88	<0.12	<0.16	<0.32	4.3	<0.35													
IRPMW45-081500-W	IRPMW45	8/15/2000	118	0.4 J	<0.32	<1.1	1 J	<0.3	<0.88	2 J	<0.16	<0.32	8.2	<0.35													
IRPMW45-111400-W	IRPMW45	11/14/2000	115	<0.054	<0.13	<0.15	0.5 J	<0.065	<0.036	0.6 J	<0.09	<0.065	3	<0.094													
IRPMW46-021500-W	IRPMW46	2/15/2000	115.4	<0.26	<0.29	<0.41	<0.34	<0.39	<0.56	<0.33	<0.29	<0.45	3	<0.25													
IRPMW46-051600-W	IRPMW46	5/16/2000	110.4	<0.08	<0.32	<1.1	<0.31	<0.3	<0.88	<0.12	<0.16	<0.32	3	<0.35													
IRPMW46-081500-W	IRPMW46	8/15/2000	117	<0.08	<0.32	<1.1	0.9 J	<0.3	<0.88	1 J	<0.16	<0.32	6.1	<0.35													
IRPMW46A-111400-W	IRPMW46A	11/14/2000	112	<0.054	<0.13	<0.15	0.4 J	<0.065	<0.036	0.5 J	<0.09	<0.065	3	<0.094													
IRPMW46B-111400-W	IRPMW46B	11/14/2000	112	<0.054	<0.13	<0.15	0.4 J	<0.065	<0.036	0.4 J	<0.09	<0.065	2	<0.084													
IRPMW47-021500-W	IRPMW47	2/15/2000	112	<0.08	<0.32	<1.1	<0.31	<0.3	<0.88	<0.12	<0.16	<0.32	2 J	<0.35													
IRPMW47-051600-W	IRPMW47	5/16/2000	112	<0.08	<0.32	<1.1	<0.31	<0.3	<0.88	<0.12	<0.16	<0.32	2	<0.35													
IRPMW47-081500-W	IRPMW47	8/15/2000	116	<0.08	<0.32	<1.1	0.6 J	<0.3	<0.88	<0.12	<0.16	<0.32	4	<0.35													
IRPMW47-111400-W	IRPMW47	11/14/2000	112	<0.054	<0.13	<0.15	<0.11	<0.065	<0.036	<0.054	<0.09	<0.065	2 J	<0.094													
IRPMW48-021600-W	IRPMW48	2/16/2000	117.8	<0.08	<0.32	<1.1	0.6 J	<0.3	<0.88	<0.12	<0.16	<0.32	3	<0.35													
IRPMW48-051600-W	IRPMW48	5/16/2000	117	<0.08	<0.32	<1.1	<0.31	<0.3	<0.88	<0.12	<0.16	<0.32	3	<0.35													
IRPMW48-081500-W	IRPMW48	8/15/2000	124	<0.08	<0.32	<1.1	0.9 J	<0.3	<0.88	<0.12	<0.16	<0.32	4.8	<0.35													
IRPMW48-111400-W	IRPMW48	11/14/2000	120	<0.064	<0.13	<0.15	0.4 J	<0.065	<0.036	<0.054	<0.09	<0.065	3	<0.094													
				17	17	17	17	17	17	17	17	17	17	17													
Analyses				1	0	0	11	0	0	5	0	0	17	17													
Detections				0.4	0	0	0.4	0	0	0.4	0	0	2	2													
Minimum Concentration				0.4	0	0	1	0	0	2	0	0	8.2	8.2													
Maximum Concentration				5	NE	NE	100	100	8.7	5	100	100	100	100													
HWAD - GW Action Level				0	NE	NE	0	0	0	0	0	0	0	0													
HWAD - GW Action Level Hits																											
Notes:																											
NA - not analyzed																											
NE - not established																											

Volatile Organic Compounds
USEPA Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth	Cis-1,2-Dichloroethene	Cis-1,3-Dichloropropene	Dibromochloromethane	Dibromodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylenes	Methylene chloride	
IRPMW45-021500-W	IRPMW45	2/15/2000	112	<0.34	<0.09	<0.47	<2.3	<0.66	<0.29	<0.15	<0.89	<3.8	
IRPMW45-051600-W	IRPMW45	5/16/2000	112.9	<0.34	<0.09	<0.47	<2.3	<0.66	<0.29	<0.15	<0.89	<3.8	
IRPMW45-081500-W	IRPMW45	8/15/2000	118	<0.34	<0.09	<0.47	<2.3	<0.66	<0.29	<0.15	<0.89	<3.8	
IRPMW45-111400-W	IRPMW45	11/14/2000	115	<0.043	<0.046	<0.076	<0.19	<0.044	<0.088	<0.22	<0.17	<0.22	1
IRPMW46-021500-W	IRPMW46	2/15/2000	115.4	<0.14	<0.29	<0.24	<1.6	<0.39	<0.4	<0.26	<0.3	<0.45	1
IRPMW46-051600-W	IRPMW46	5/16/2000	110.4	<0.34	<0.09	<0.47	<2.3	<0.66	<0.29	<0.15	<0.89	<0.15	<3.8
IRPMW46-081500-W	IRPMW46	8/15/2000	117	<0.34	<0.09	<0.47	<2.3	<0.66	<0.29	<0.15	<0.89	<0.15	<3.8
IRPMW46-111400-W	IRPMW46	11/14/2000	112	<0.043	<0.046	<0.076	<0.19	<0.044	<0.042	<0.088	<0.22	<0.17	<0.22
IRPMW46A-111400-W	IRPMW46A	11/14/2000	112	<0.043	<0.046	<0.076	<0.19	<0.044	<0.042	<0.088	<0.22	<0.17	<0.22
IRPMW46B-111400-W	IRPMW46B	11/14/2000	112	<0.34	<0.09	<0.47	<2.3	<0.66	<0.29	<0.15	<0.89	<0.15	<3.8
IRPMW47-021500-W	IRPMW47	2/15/2000	112	<0.34	<0.09	<0.47	<2.3	<0.66	<0.29	<0.15	<0.89	<0.15	<3.8
IRPMW47-051600-W	IRPMW47	5/16/2000	112	<0.34	<0.09	<0.47	<2.3	<0.66	<0.29	<0.15	<0.89	<0.15	<3.8
IRPMW47-081500-W	IRPMW47	8/15/2000	116	<0.34	<0.09	<0.47	<2.3	<0.66	<0.29	<0.15	<0.89	<0.15	<3.8
IRPMW47-111400-W	IRPMW47	11/14/2000	112	<0.043	<0.046	<0.076	<0.19	<0.044	<0.042	<0.088	<0.22	<0.17	<0.22
IRPMW48-021600-W	IRPMW48	2/16/2000	117.8	<0.34	<0.09	<0.47	<2.3	<0.66	<0.29	<0.15	<0.89	<0.15	<3.8
IRPMW48-051600-W	IRPMW48	5/16/2000	117	<0.34	<0.09	<0.47	<2.3	<0.66	<0.29	<0.15	<0.89	<0.15	<3.8
IRPMW48-081500-W	IRPMW48	8/15/2000	124	<0.34	<0.09	<0.47	<2.3	<0.66	<0.29	<0.15	<0.89	<0.15	<3.8
IRPMW48-111400-W	IRPMW48	11/14/2000	120	<0.043	<0.046	<0.076	<0.19	<0.044	<0.042	<0.088	<0.22	<0.17	<0.22

Analyses
Detections
Minimum Concentration
Maximum Concentration
HWAD - GW Action Level
HWAD - GW Action Level Hits
Notes:
NA - not analyzed
NE - not established

Volatile Organic Compounds
USEPA Method 2260A (APCL)

Sample ID	Location ID	Sample Date	Depth	MTBE	Naphthalene		Toluene		trans-1,2-Dichloroethene	
					µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
IRPMW45-021500-W	IRPMW45 2/15/2000	112	<0.25	<0.28	<0.19	<0.15	<0.23	<0.13	<0.18	<0.15
IRPMW45-051600-W	IRPMW45 5/16/2000	112.9	<0.25	<0.28	<0.19	<0.15	<0.23	<0.13	<0.18	<0.15
IRPMW45-081500-W	IRPMW45 8/15/2000	118	<0.25	<0.28	<0.19	<0.15	<0.23	<0.13	<0.18	<0.15
IRPMW45-111400-W	IRPMW45 11/14/2000	115	<0.097	<0.17	<0.13	<0.16	<0.074	<0.15	<0.1	<0.16
IRPMW46-021500-W	IRPMW46 2/15/2000	115.4	<0.53	<0.34	<0.32	<0.66	<0.27	<0.3	<0.4	<0.39
IRPMW46-051600-W	IRPMW46 5/16/2000	110.4	<0.25	<0.28	<0.19	<0.15	<0.23	<0.15	<0.18	<0.15
IRPMW46-081500-W	IRPMW46 8/15/2000	117	<0.25	<0.28	<0.19	<0.15	<0.23	<0.15	<0.18	<0.15
IRPMW46A-111400-W	IRPMW46 11/14/2000	112	<0.097	<0.17	<0.13	<0.16	<0.074	<0.15	<0.1	<0.16
IRPMW46B-111400-W	IRPMW46 11/14/2000	112	<0.097	<0.17	<0.13	<0.16	<0.074	<0.15	<0.1	<0.16
IRPMW47-021500-W	IRPMW47 2/15/2000	112	<0.25	<0.28	<0.19	<0.15	<0.23	<0.15	<0.18	<0.15
IRPMW47-051600-W	IRPMW47 5/16/2000	112	<0.25	<0.28	<0.19	<0.15	<0.23	<0.15	<0.18	<0.15
IRPMW47-081500-W	IRPMW47 8/15/2000	116	<0.25	<0.28	<0.19	<0.15	<0.23	<0.15	<0.18	<0.15
IRPMW47-111400-W	IRPMW47 11/14/2000	112	<0.097	<0.17	<0.13	<0.16	<0.074	<0.15	<0.1	<0.16
IRPMW48-021600-W	IRPMW48 2/16/2000	117.8	<0.25	<0.28	<0.19	<0.15	<0.23	<0.15	<0.18	<0.15
IRPMW48-051600-W	IRPMW48 5/16/2000	117	<0.25	<0.28	<0.19	<0.15	<0.23	<0.15	<0.18	<0.15
IRPMW48-081500-W	IRPMW48 8/15/2000	124	<0.25	<0.28	<0.19	<0.15	<0.23	<0.15	<0.18	<0.15
IRPMW48-111400-W	IRPMW48 11/14/2000	120	<0.097	<0.17	<0.13	<0.16	<0.074	<0.15	<0.1	<0.16

Analyses
Detections
Minimum Concentration
Maximum Concentration

HWAD - GW Action Level
HWAD - GW Action Level Hits

Notes:
NA - not analyzed
NE - not established

Volatile Org. Compounds
USEPA Method 0260A (APCL)

Sample ID	Location ID	Sample Date	Depth	Trichloroethylene			
				trans-1,3-Dichloropropene	Vinyl chloride	Trichlorofluoromethane	ug/l
IRPMW45-021500-W	IRPMW45	2/15/2000	112	<0.2	<0.28	<0.33	<0.31
IRPMW45-051600-W	IRPMW45	5/16/2000	112.9	<0.2	<0.28	<0.33	<0.31
IRPMW45-081500-W	IRPMW45	8/15/2000	118	<0.2	<0.28	<0.33	<0.31
IRPMW45-111400-W	IRPMW45	11/14/2000	115	<0.044	<0.057	<0.053	<0.068
IRPMW46-021500-W	IRPMW46	2/15/2000	115.4	<0.29	<0.28	<0.26	<0.19
IRPMW46-051600-W	IRPMW46	5/16/2000	110.4	<0.2	<0.28	<0.33	<0.31
IRPMW46-081500-W	IRPMW46	8/15/2000	117	<0.2	<0.28	<0.33	<0.31
IRPMW46A-111400-W	IRPMW46	11/14/2000	112	<0.044	<0.057	<0.053	<0.068
IRPMW46B-111400-W	IRPMW46	11/14/2000	112	<0.044	<0.057	<0.053	<0.068
IRPMW47-021500-W	IRPMW47	2/15/2000	112	<0.2	<0.28	<0.33	<0.31
IRPMW47-051600-W	IRPMW47	5/16/2000	112	<0.2	<0.28	<0.33	<0.31
IRPMW47-081500-W	IRPMW47	8/15/2000	116	<0.2	<0.28	<0.33	<0.31
IRPMW47-111400-W	IRPMW47	11/14/2000	112	<0.044	<0.057	<0.053	<0.068
IRPMW48-021600-W	IRPMW48	2/16/2000	117.8	<0.2	<0.28	<0.33	<0.31
IRPMW48-051600-W	IRPMW48	5/16/2000	117	<0.2	<0.28	<0.33	<0.31
IRPMW48-081500-W	IRPMW48	8/15/2000	124	<0.2	<0.28	<0.33	<0.31
IRPMW48-111400-W	IRPMW48	11/14/2000	120	<0.044	<0.057	<0.053	<0.068

Analyses	17	17	17	17
Detectors	0	0	0	0
Minimum Concentration	0	0	0	0
Maximum Concentration	0	0	0	0
HWAD - GW Action Level	0.081	5	1300	2
HWAD - GW Action Level Hits	0	0	0	0

Notes:

NA - not analyzed

NE - not established

Semivolatile (
USEPA Method 270B (APCL)) Compounds

	Sample ID	Location ID	Sample Date	Depth	1,2,4-Tetrachlorobenzene	1,2,4,5-Tetrachlorobenzene	1,2-Dichlorobenzene	1,2-Diphenylhydrazine	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1-Choronaphthalene	1-Naphthylamine	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4-Dichlorophenol	2,4-Dinitrophenol	2,4,6-Trichlorophenol	2,4,6-Triphenylphenol	2,4,6-Triphenoxyphenol	2,4,6-Triphenoxyphenol		
IRPMW45-021500-W	IRPMW45	2/15/2000	112	<1.4	<1.4	<1.3	<1.1	<1.2	<1.2	<1.3	<1.1	<1.2	<1.2	<1.4	<1.5	<1.4	<1.5	<1.4	<1.4	<1.5	<6.2	
IRPMW45-051600-W	IRPMW45	5/16/2000	112.9	<1.4	<1.4	<1.3	<1.1	<1.2	<1.2	<1.3	<1.1	<1.2	<1.2	<1.7	<1.9	<1.4	<1.5	<1.4	<1.4	<1.5	<6.2	
IRPMW45-081500-W	IRPMW45	8/15/2000	118	<1.4	<0.94	<0.75	<0.87	<0.76	<0.83	<0.76	<0.87	<0.76	<0.83	<1.3	<4.3	<2.7	<2	<1.8	<1.7	<1.3	<1.1	m
IRPMW45-111400-W	IRPMW45	11/14/2000	115	<1.4	<0.94	<0.75	<0.87	<0.76	<0.83	<0.76	<0.87	<0.76	<0.83	<1.3	<4.3	<2.7	<2	<1.8	<1.7	<1.3	<1.1	m
IRPMW46-021500-W	IRPMW46	2/15/2000	115.4	<1.4	<1.4	<1.3	<1.1	<1.2	<1.2	<1.3	<1.1	<1.2	<1.2	<0	<1.9	<1.4	<1.5	<1.4	<1.4	<1.5	<6.2	
IRPMW46-051600-W	IRPMW46	5/16/2000	110.4	<1.4	<1.4	<1.3	<1.1	<1.2	<1.2	<1.3	<1.1	<1.2	<1.2	<1.7	<1.9	<1.4	<1.5	<1.4	<1.4	<1.5	<6.2	
IRPMW46-081500-W	IRPMW46	8/15/2000	117	<2.6	<2	<1.9	<2.8	<2	<2.1	<1.8	<2	<1.9	<2.8	<2	<7.6	<1.3	<1.4	<2.1	<2.1	<1.2	<1.2	<14
IRPMW46A-111400-W	IRPMW46	11/14/2000	112	<1.4	<0.94	<0.75	<0.87	<0.76	<0.83	<0.76	<0.87	<0.75	<0.83	<1.3	<4.3	<2.7	<2	<1.8	<1.7	<1.3	<1.1	m
IRPMW46B-111400-W	IRPMW46	11/14/2000	112	<1.4	<0.94	<0.75	<0.87	<0.76	<0.83	<0.76	<0.87	<0.75	<0.83	<1.3	<4.3	<2.7	<2	<1.8	<1.7	<1.3	<1.1	m
IRPMW47-021500-W	IRPMW47	2/15/2000	112	<1.4	<1.4	<1.3	<1.1	<1.2	<1.2	<1.3	<1.1	<1.2	<1.2	<0	<1.9	<1.4	<1.5	<1.4	<1.4	<1.4	<6.2	
IRPMW47-051600-W	IRPMW47	5/16/2000	112	<1.4	<1.4	<1.3	<1.1	<1.2	<1.2	<1.3	<1.1	<1.2	<1.2	<1.7	<1.9	<1.4	<1.5	<1.4	<1.4	<1.4	<6.2	
IRPMW47-081500-W	IRPMW47	8/15/2000	116	<2.6	<2	<1.9	<2.8	<2	<2.1	<1.8	<2	<1.9	<2.8	<2	<7.6	<1.3	<1.4	<2.1	<2.1	<1.2	<1.2	<14
IRPMW47-111400-W	IRPMW47	11/14/2000	112	<1.4	<0.94	<0.75	<0.87	<0.76	<0.83	<0.76	<0.87	<0.75	<0.83	<1.3	<4.3	<2.7	<2	<1.8	<1.7	<1.3	<1.1	m
IRPMW47-1412000	IRPMW47	11/14/2000	112	<1.4	<0.94	<0.75	<0.87	<0.76	<0.83	<0.76	<0.87	<0.75	<0.83	<1.3	<4.3	<2.7	<2	<1.8	<1.7	<1.3	<1.1	m
IRPMW48-021600-W	IRPMW48	2/16/2000	117.8	<1.4	<1.4	<1.3	<1.1	<1.2	<1.2	<1.3	<1.1	<1.2	<1.2	<0	<19	<1.4	<1.5	<1.4	<1.4	<1.4	<6.2	
IRPMW48-051600-W	IRPMW48	5/16/2000	117	<1.4	<1.4	<1.3	<1.1	<1.2	<1.2	<1.3	<1.1	<1.2	<1.2	<1.7	<19	<1.4	<1.5	<1.4	<1.4	<1.4	<6.2	
IRPMW48-081500-W	IRPMW48	8/15/2000	124	<2.6	<2	<1.9	<2.8	<2	<2.1	<1.8	<2	<1.9	<2.8	<2	<7.6	<1.3	<1.4	<2.1	<2.1	<1.2	<1.2	<14
IRPMW48-111400-W	IRPMW48	11/14/2000	120	<1.4	<0.94	<0.75	<0.87	<0.76	<0.83	<0.76	<0.87	<0.75	<0.83	<1.3	<4.3	<2.7	<2	<1.8	<1.7	<1.3	<1.1	m

Notes:
NA - not analyzed
NE - not established

Semivolatile C
Compounds
USEPA Method 2270B (APCL)

Sample ID	Location ID	Sample Date	Depth	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Methylphenol (o-Cresol)	2-Naphthylamine	2-Picoline	3,3'-Dichlorobenzidine	4,6-Dinitrophenol-O-cresol	4-Aminobiphenyl	4-Bromophenyl phenyl ether			
IRPMW45-021500-W	IRPMW45 2/15/2000	112	<1.5	<1.8	<1.7	<1.3	<1.7	<1.3	<8.2	<1.2	<0.96	<9.3	<7.7	<3.4	<1.5	
IRPMW45-051600-W	IRPMW45 5/16/2000	112.9	<1.5	<1.8	<1.7	<1.3	<1.7	<1.3	<8.2	<1.2	<0.96	<9.3	<7.7	<3.4	<1.5	
IRPMW45-081500-W	IRPMW45 8/15/2000	118	<1.4	<1.7	<1.3	<0.92	<1.7	<1.1	<5.3	<6.7	<1.5	<1.3	<6.8	<4.3	<7.5	<1.1
IRPMW45-111400-W	IRPMW45 11/14/2000	115	<1.4	<1.7	<1.3	<0.92	<1.7	<1.1	<5.3	<6.7	<1.5	<1.3	<6.8	<4.3	<7.5	<0.98
IRPMW46-021500-W	IRPMW46 2/15/2000	115.4	<1.5	<1.8	<1.7	<1.3	<1.7	<1.3	<19	<8.2	<1.2	<0.96	<9.3	<7.7	<3.4	<1.5
IRPMW46-051600-W	IRPMW46 5/16/2000	110.4	<1.5	<1.8	<1.7	<1.3	<1.7	<1.3	<19	<8.2	<1.2	<0.96	<9.3	<7.7	<3.4	<1.8
IRPMW46-081500-W	IRPMW46 8/15/2000	117	<2	<2.1	<2.1	<1.8	<1.5	<1.3	<6.3 u	<8.6	<1.7	<1.4	<7.8	<7.6	<4.5	<1.8
IRPMW46A-111400-W	IRPMW46A 11/14/2000	112	<1.4	<1.7	<1.3	<0.92	<1.7	<1.1	<5.3	<6.7	<1.5	<1.3	<6.8	<4.3	<7.5	<1.1
IRPMW46B-111400-W	IRPMW46B 11/14/2000	112	<1.4	<1.7	<1.3	<0.92	<1.7	<1.1	<5.3	<6.7	<1.5	<1.3	<6.8	<4.3	<7.5	<1.1
IRPMW47-021500-W	IRPMW47 2/15/2000	112	<1.5	<1.8	<1.7	<1.3	<1.7	<1.3	<19	<8.2	<1.2	<0.96	<9.3	<7.7	<3.4	<1.5
IRPMW47-051600-W	IRPMW47 5/16/2000	112	<1.5	<1.8	<1.7	<1.3	<1.7	<1.3	<19	<8.2	<1.2	<0.96	<9.3	<7.7	<3.4	<1.8
IRPMW47-081500-W	IRPMW47 8/15/2000	116	<2	<2.1	<1.8	<1.5	<1.5	<1.3	<6.3 u	<8.6	<1.7	<1.4	<7.8	<7.6	<4.5	<1.8
IRPMW47-111400-W	IRPMW47 11/14/2000	112	<1.4	<1.7	<1.3	<0.92	<1.7	<1.1	<5.3	<6.7	<1.5	<1.3	<6.8	<4.3	<7.5	<1.1
IRPMW48-021600-W	IRPMW48 2/16/2000	117.8	<1.5	<1.8	<1.7	<1.3	<1.7	<1.3	<19	<8.2	<1.2	<0.96	<9.3	<7.7	<3.4	<1.5
IRPMW48-051600-W	IRPMW48 5/16/2000	117	<1.5	<1.8	<1.7	<1.3	<1.7	<1.3	<19	<8.2	<1.2	<0.96	<9.3	<7.7	<3.4	<1.6
IRPMW48-081500-W	IRPMW48 8/15/2000	124	<2	<2.1	<1.8	<1.5	<1.7	<1.3	<6.3 u	<8.6	<1.7	<1.4	<7.8	<7.6	<4.5	<1.8
IRPMW48-111400-W	IRPMW48 11/14/2000	120	<1.4	<1.7	<1.3	<0.92	<1.7	<1.1	<5.3	<6.7	<1.5	<1.3	<6.8	<4.3	<7.5	<0.98

Analyses

Detections

Minimum Concentration

Maximum Concentration

HWAD - GW Action Level

HWAD - GW Action Level Hits

Notes:

NA - not analyzed

NE - not established

Semivolatile Compounds
USEPA Method 220B (APCL)

Sample ID	Location ID	Sample Date	Depth	4-Chlorophenol	4-Nitroaniline	7,12-Dimethylbenz(a)anthracene	Acenaphthylene	Anthracene	Benzidine								
IRPMW45-021500-W	IRPMW45	2/15/2000	112	<1.9	<7.6	<1.8	<1.1	<7.5	<14	<2.1	<1.2 W	<1.5	<1.7	<1.4	<1.3	<1.6	<8.1
IRPMW45-051600-W	IRPMW45	5/16/2000	112.9	<1.9	<7.6	<1.8	<1.1	<7.5	<14	<2.1	<1.2 W	<1.5	<1.7	<1.4	<1.3	<1.6	<8.1
IRPMW45-081500-W	IRPMW45	8/15/2000	118	<2.3	<5.7	<1.1	<1.2	<7.7	<1.6	<1.4	<2.9	<1	<1.2	<1	<1.2	<1.1	<5.3
IRPMW45-111400-W	IRPMW45	11/14/2000	115	<2.3	<5.7	<1.1	<1.2	<7.7	<1.6	<1.4	<2.9	<1	<1.2	<1	<1.2	<1	<5.3
IRPMW46-021500-W	IRPMW46	2/15/2000	115.4	<1.9	<7.6	<1.8	<1.1	<7.5	<14	<2.1	<1.2 W	<1.5	<1.7	<1.4	<1.3	<1.6	<8.1
IRPMW46-051600-W	IRPMW46	5/16/2000	110.4	<1.9	<7.6	<1.8	<1.1	<7.5	<14	<2.1	<1.2 W	<1.5	<1.7	<1.4	<1.3	<1.6	<8.1
IRPMW46-081500-W	IRPMW46	8/15/2000	117	<1.7	<7.8	<2	<1.8	<7.3	<14	<1.1	<6.2	<2	<1.9	<1.6	<1.9	<1.7	<5.1 W
IRPMW46A-111400-W	IRPMW46	11/14/2000	112	<2.3	<5.7	<1.1	<1.2	<7.7	<1.6	<1.4	<2.9	<1	<1.2	<1	<1.2	<1	<5.3
IRPMW46B-111400-W	IRPMW46	11/14/2000	112	<2.3	<5.7	<1.1	<1.2	<7.7	<1.6	<1.4	<2.9	<1	<1.2	<1	<1.2	<1	<5.3
IRPMW47-021500-W	IRPMW47	2/15/2000	112	<1.9	<7.6	<1.8	<1.1	<7.5	<14	<2.1	<1.2 W	<1.5	<1.7	<1.4	<1.3	<1.6	<8.1
IRPMW47-051600-W	IRPMW47	5/16/2000	112	<1.9	<7.6	<1.8	<1.1	<7.5	<14	<2.1	<1.2 W	<1.5	<1.7	<1.4	<1.3	<1.6	<8.1
IRPMW47-081500-W	IRPMW47	8/15/2000	116	<1.7	<7.8	<2	<1.8	<7.3	<14	<1.1	<6.2	<2	<1.9	<1.6	<1.9	<1.7	<5.1 W
IRPMW47-111400-W	IRPMW47	11/14/2000	112	<2.3	<5.7	<1.1	<1.2	<7.7	<1.6	<1.4	<2.9	<1	<1.2	<1	<1.2	<1	<5.3
IRPMW48-021600-W	IRPMW48	2/16/2000	117.8	<1.9	<7.6	<1.8	<1.1	<7.5	<14	<2.1	<1.2 W	<1.5	<1.7	<1.4	<1.3	<1.6	<8.1
IRPMW48-051600-W	IRPMW48	5/16/2000	117	<1.9	<7.8	<1.8	<1.1	<7.5	<14	<2.1	<1.2 W	<1.5	<1.7	<1.4	<1.3	<1.6	<8.1
IRPMW48-081500-W	IRPMW48	8/15/2000	124	<1.7	<7.8	<2	<1.8	<7.3	<14	<1.1	<6.2	<2	<1.9	<1.6	<1.9	<1.7	<5.1 W
IRPMW48-111400-W	IRPMW48	11/14/2000	120	<2.3	<5.7	<1.1	<1.2	<7.7	<1.6	<1.4	<2.9	<1	<1.2	<1	<1.2	<1	<5.3

Analyses	17	17	17	17	17	17	17	17	17
Detections	0	0	0	0	0	0	0	0	0
Minimum Concentration	0	0	0	0	0	0	0	0	0
Maximum Concentration	0	0	0	0	0	0	0	0	0
HWAD - GW Action Level	NE	150	NE	180	NE	NE	NE	370	NE
HWAD - GW Action Level Hits	NE	0	NE	0	NE	NE	NE	0	NE

Notes:
NA - not analyzed
NE - not established

Semivolatile Compounds
USEPA Method 2270B (APCL)

Sample ID	Location ID	Sample Date	Dept#	Benzene				Benzyl alcohol				Benzocic Acid				Bis(2-Chloroethyl) ether				Bis(2-Ethylhexyl)-phthalate				Butyl benzyl phthalate				
				1/gm	1/gm	1/gm	1/gm	1/gm	1/gm	1/gm	1/gm	1/gm	1/gm	1/gm	1/gm	1/gm	1/gm	1/gm	1/gm	1/gm	1/gm	1/gm	1/gm	1/gm	1/gm	1/gm	1/gm	1/gm
IRPMW45-021500-W	IRPMW45	2/15/2000	112	<1.6	<1.4	<2	<1.8	<0	<1.3	<1.9	<1.3	<1.4	<2.1	8	<1.6	<1.7												
IRPMW45-051600-W	IRPMW45	5/16/2000	112.9	<1.6	<1.6	<1.4	<2	<1.8	<50	<1.3	<1.9	<1.3	<1.4	<2.1	3	<1.6	<1.7											
IRPMW45-081500-W	IRPMW45	8/15/2000	118	<1.4	<1.2	<0.81	<1.4	<1.3	<49	<1.4	<2	<1.1	<0.92	<2	3	<0.98	<1.1											
IRPMW45-111400-W	IRPMW45	11/14/2000	115	<1.4	<1.2	<0.81	<1.4	<1.3	<49	<1.4	<2	<1.1	<0.92	<2	4	<0.98	<1.1											
IRPMW46-021500-W	IRPMW46	2/15/2000	115.4	<1.6	<1.6	<1.4	<2	<1.8	<0	<1.3	<1.9	<1.3	<1.4	<2.1	9	<1.6	<1.7											
IRPMW46-051600-W	IRPMW46	5/16/2000	110.4	<1.6	<1.6	<1.4	<2	<1.8	<50	<1.3	<1.9	<1.3	<1.4	<2.1	<2	<1.6	<1.7											
IRPMW46-081500-W	IRPMW46	8/15/2000	117	<1.6	<1.7	<1.5	<1.6	<1.4	<50	<1.4	<1.4	<1.8	<1.6	<2.1	7	<1.5	<1.6											
IRPMW46A-111400-W	IRPMW46	11/14/2000	112	<1.4	<1.2	<0.81	<1.4	<1.3	<49	<1.4	<2	<1.1	<0.92	<2	5	<0.98	<1.1											
IRPMW46B-111400-W	IRPMW46	11/14/2000	112	<1.4	<1.2	<0.81	<1.4	<1.3	<49	<1.4	<2	<1.1	<0.92	<2	7	<0.98	<1.1											
IRPMW47-021500-W	IRPMW47	2/15/2000	112	<1.6	<1.6	<1.4	<2	<1.8	<0	<1.3	<1.9	<1.3	<1.4	<2.1	5	<1.6	<1.7											
IRPMW47-051600-W	IRPMW47	5/16/2000	112	<1.6	<1.6	<1.4	<2	<1.8	<50	<1.3	<1.9	<1.3	<1.4	<2.1	2	<1.6	<1.7											
IRPMW47-081500-W	IRPMW47	8/15/2000	116	<1.6	<1.7	<1.5	<1.6	<1.4	<50	<1.4	<1.4	<1.8	<1.6	<2.1	3	<1.5	<1.6											
IRPMW47-111400-W	IRPMW47	11/14/2000	112	<1.4	<1.2	<0.81	<1.4	<1.3	<49	<1.4	<2	<1.1	<0.92	<2	3	<0.98	<1.1											
IRPMW48-021600-W	IRPMW48	2/16/2000	117.8	<1.6	<1.6	<1.4	<2	<1.8	<0	<1.3	<1.9	<1.3	<1.4	<2.1	4	<1.6	<1.7											
IRPMW48-051600-W	IRPMW48	5/16/2000	117	<1.6	<1.6	<1.4	<2	<1.8	<50	<1.3	<1.9	<1.3	<1.4	<2.1	2	<1.6	<1.7											
IRPMW48-081500-W	IRPMW48	8/15/2000	124	<1.6	<1.7	<1.5	<1.6	<1.4	<50	<1.4	<1.4	<1.8	<1.6	<2.1	3	<1.5	<1.6											
IRPMW48-111400-W	IRPMW48	11/14/2000	120	<1.4	<1.2	<0.81	<1.4	<1.3	<49	<1.4	<2	<1.1	<0.92	<2	2	<0.98	<1.1											

Analyses

Detections

Minimum Concentration

Maximum Concentration

HWAD - GW Action Level Hits

HWAD - GW Action Level Hits

Notes:

NA - not analyzed

NE - not established

Semivolatile Compounds
USEPA Method 2270B (APCL)

Analyses	17	17	17	17	17	17	17	17	17	17	17
Detections	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration	730	0.0092	NE	24	29000	370000	910	NE	1500	240	1
HWAD - GW Action Level	0	0	NE	0	0	0	NE	0	0	0	0.86
HWAD - GW Action Level Hits											4.8
Notes:											
NA - not analyzed											
NE - not established											

Notes:
NA - not analyzed
NE - not established

Semivolatile Compounds
USEPA Method 600/0B (APCL)

Sample ID	Location ID	Sample Date	Depth	Isophorone	N-Nitroso-di-n-propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	N-Nitrosopiperidine	Naphthalene	Nitrobenzene	p-Dimethylaminobenzene	Pen-tachlorobenzenes	Pen-tachlorophenol	
IRPMW45-021500-W	IRPMW45	2/15/2000	112	<1.7	<0.94	<2.4	<1.8	<0.8	<7.7	<1.6	<1.4	<1.5	<1.2	<7.2
IRPMW45-051600-W	IRPMW45	5/16/2000	112.9	<1.7	<1.7	<0.94	<2.4	<1.8	<0.8	<7.7	<1.6	<1.4	<1.5	<1.2
IRPMW45-081500-W	IRPMW45	8/15/2000	118	<1.3	<2.1	<1.3	<2.4	<2	<2.9	<5.8	<2.2	<0.81	<1	<1.3
IRPMW45-111400-W	IRPMW45	11/14/2000	115	<1.3	<2.1	<1.3	<2.4	<2	<2.9	<5.8	<2.2	<0.81	<1	<1.3
IRPMW46-021500-W	IRPMW46	2/15/2000	115.4	<1.7	<1.7	<0.94	<2.4	<1.8	<0.8	<7.7	<1.6	<1.3	<1.4	<1.5
IRPMW46-051600-W	IRPMW46	5/16/2000	110.4	<1.7	<1.7	<0.94	<2.4	<1.8	<0.8	<7.7	<1.6	<1.3	<1.4	<1.5
IRPMW46-081500-W	IRPMW46	8/15/2000	117	<1.4	<1.6	<1.6	<1.4	<1.3	<8.9	<1.3	<1.8	<1.6	<1.4	<2.2
IRPMW46A-111400-W	IRPMW46	11/14/2000	112	<1.3	<2.1	<1.3	<2.4	<2	<2.9	<5.8	<2.2	<0.81	<1	<1.3
IRPMW46B-111400-W	IRPMW46	11/14/2000	112	<1.3	<2.1	<1.3	<2.4	<2	<2.9	<5.8	<2.2	<0.81	<1	<1.3
IRPMW47-021500-W	IRPMW47	2/15/2000	112	<1.7	<1.7	<0.94	<2.4	<1.8	<0.8	<7.7	<1.6	<1.3	<1.4	<1.5
IRPMW47-051600-W	IRPMW47	5/16/2000	112	<1.7	<1.7	<0.94	<2.4	<1.8	<0.8	<7.7	<1.6	<1.3	<1.4	<1.5
IRPMW47-081500-W	IRPMW47	8/15/2000	116	<1.7	<1.4	<1.6	<1.6	<1.4	<1.3	<8.9	<1.3	<1.8	<1.6	<1.4
IRPMW47-111400-W	IRPMW47	11/14/2000	112	<1.3	<2.1	<1.3	<2.4	<2	<2.9	<5.8	<2.2	<0.81	<1	<1.3
IRPMW48-021600-W	IRPMW48	2/16/2000	117.8	<1.7	<1.7	<0.94	<2.4	<1.8	<0.8	<7.7	<1.6	<1.3	<1.4	<1.5
IRPMW48-051600-W	IRPMW48	5/16/2000	117	<1.7	<1.7	<0.94	<2.4	<1.8	<0.8	<7.7	<1.6	<1.3	<1.4	<1.5
IRPMW48-081500-W	IRPMW48	8/15/2000	124	<1.7	<1.4	<1.6	<1.6	<1.4	<1.3	<8.9	<1.3	<1.8	<1.4	<2.2
IRPMW48-111400-W	IRPMW48	11/14/2000	120	<1.3	<2.1	<1.3	<2.4	<2	<2.9	<5.8	<2.2	<0.81	<1	<1.3

Analyses

Detections

Minimum Concentration

Maximum Concentration

HWAD - GW Action Level

HWAD - GW Action Level Hits

Notes:

NA - not analyzed

NE - not established

Semivolatile Compounds
USEPA Method 2270B (APCL)

Sample ID	Location ID	Sample Date	Detect	Phenacethin	Phenanthrene	Phenol	Pronamide	Pyrene
IRPMW45-021500-W	IRPMW45	2/15/2000	112	<1.6	<1.4	<0.69	<1.5	<1.6
IRPMW45-051600-W	IRPMW45	5/16/2000	112.9	<1.6	<1.4	<0.69	<1.5	<1.6
IRPMW45-081500-W	IRPMW45	8/15/2000	118	<1.7	<0.89	<0.7	<2	<0.94
IRPMW45-111400-W	IRPMW45	11/14/2000	115	<1.7	<0.89	<0.7	<2	<0.94
IRPMW46-021500-W	IRPMW46	2/15/2000	115.4	<1.6	<1.4	<0.69	<1.5	<1.6
IRPMW46-051600-W	IRPMW46	5/16/2000	110.4	<1.6	<1.4	<0.69	<1.5	<1.6
IRPMW46-081500-W	IRPMW46	8/15/2000	117	<2	<1.9	<0.85	<1.5	<1.7
IRPMW46A-111400-W	IRPMW46	11/14/2000	112	<1.7	<0.89	<0.7	<2	<0.94
IRPMW46B-111400-W	IRPMW46	11/14/2000	112	<1.7	<0.89	<0.7	<2	<0.94
IRPMW47-021500-W	IRPMW47	2/15/2000	112	<1.6	<1.4	<0.69	<1.5	<1.6
IRPMW47-051600-W	IRPMW47	5/16/2000	112	<1.6	<1.4	<0.69	<1.5	<1.6
IRPMW47-081500-W	IRPMW47	8/15/2000	116	<2	<1.9	<0.85	<1.5	<1.7
IRPMW47-111400-W	IRPMW47	11/14/2000	112	<1.7	<0.89	<0.7	<2	<0.94
IRPMW48-021600-W	IRPMW48	2/16/2000	117.8	<1.6	<1.4	<0.69	<1.5	<1.6
IRPMW48-051600-W	IRPMW48	5/16/2000	117	<1.6	<1.4	<0.69	<1.5	<1.6
IRPMW48-081500-W	IRPMW48	8/15/2000	124	<2	<1.9	<0.85	<1.5	<1.7
IRPMW48-111400-W	IRPMW48	11/14/2000	120	<1.7	<0.89	<0.7	<2	<0.94

Analyses	17	17	17	17	17
Detections	0	0	0	0	0
Minimum Concentration	0	0	0	0	0
Maximum Concentration	0	0	0	0	0
HWAD - GW Action Level	NE	NE	22000	2700	180
HWAD - GW Action Level Hits	NE	NE	0	0	0

Notes:

NA - not analyzed

NE - not established

Explosives
ounds
USEPA Methods 8330 and 8330M (APCL)

Sample ID	Location ID	Depth	Sample Date	HMX									
				2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Nitrotoluene	3-Nitrotoluene	4-Nitrotoluene	Nitrobenzene	TLCIC Acid	RDX	ug/l	ug/l
IRPMW45-021500-W	IRPMW45	2/15/2000	112	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09
IRPMW45-051600-W	IRPMW45	5/16/2000	112.9	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09
IRPMW45-081500-W	IRPMW45	8/15/2000	118	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09
IRPMW45-111400-W	IRPMW45	11/14/2000	115	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09
IRPMW46-021500-W	IRPMW46	2/15/2000	115.4	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09
IRPMW46-051600-W	IRPMW46	5/16/2000	110.4	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09
IRPMW46-081500-W	IRPMW46	8/15/2000	117	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09
IRPMW46A-111400-W	IRPMW46	11/14/2000	112	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09
IRPMW46B-111400-W	IRPMW46	11/14/2000	112	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09
IRPMW47-021500-W	IRPMW47	2/15/2000	112	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09
IRPMW47-051600-W	IRPMW47	5/16/2000	112	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09
IRPMW47-081500-W	IRPMW47	8/15/2000	116	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09
IRPMW47-111400-W	IRPMW47	11/14/2000	112	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09
IRPMW48-021600-W	IRPMW48	2/16/2000	117.8	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09
IRPMW48-051600-W	IRPMW48	5/16/2000	117	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09
IRPMW48-081500-W	IRPMW48	8/15/2000	124	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09
IRPMW48-111400-W	IRPMW48	11/14/2000	120	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09

Analyses
Detections
Minimum Concentration
Maximum Concentration
HWAD - GW Action Level
HWAD - GW Action Level Hits
Notes:
NA - not analyzed
NE - not established

Explosive Junds
USEPA Methods 833U and 8330M (APCL)

Sample ID	Location ID	Sample Date	Depth	P-Amino-4,6-dinitrotoluene		4-Amino-2,6-dinitrotoluene	
				ng/L	ug/L	ng/L	ug/L
IRPMW45-021500-W	IRPMW45	2/15/2000	112	<0.034	<0.033	<0.026	<0.026
IRPMW45-051600-W	IRPMW45	5/16/2000	112.9	<0.034	<0.033	<0.026	<0.026
IRPMW45-081500-W	IRPMW45	8/15/2000	118	<0.034	<0.033	<0.026	<0.026
IRPMW45-111400-W	IRPMW45	11/14/2000	115	<0.034	<0.033	<0.026	<0.026
IRPMW46-021500-W	IRPMW46	2/15/2000	115.4	<0.034	<0.033	<0.026	<0.026
IRPMW46-051600-W	IRPMW46	5/16/2000	110.4	<0.034	<0.033	<0.026	<0.026
IRPMW46-081500-W	IRPMW46	8/15/2000	117	<0.034	<0.033	<0.026	<0.026
IRPMW46A-111400-W	IRPMW46	11/14/2000	112	<0.034	<0.033	<0.026	<0.026
IRPMW46B-111400-W	IRPMW46	11/14/2000	112	<0.034	<0.033	<0.026	<0.026
IRPMW47-021500-W	IRPMW47	2/15/2000	112	<0.034	<0.033	<0.026	<0.026
IRPMW47-051600-W	IRPMW47	5/16/2000	112	<0.034	<0.033	<0.026	<0.026
IRPMW47-081500-W	IRPMW47	8/15/2000	116	<0.034	<0.033	<0.026	<0.026
IRPMW47-111400-W	IRPMW47	11/14/2000	112	<0.034	<0.033	<0.026	<0.026
IRPMW48-021600-W	IRPMW48	2/16/2000	117.8	<0.034	<0.033	<0.026	<0.026
IRPMW48-051600-W	IRPMW48	5/16/2000	117	<0.034	<0.033	<0.026	<0.026
IRPMW48-081500-W	IRPMW48	8/15/2000	124	<0.034	<0.033	<0.026	<0.026
IRPMW48-111400-W	IRPMW48	11/14/2000	120	<0.034	<0.033	<0.026	<0.026
Analyses				17	17	17	17
Detections				0	0	0	0
Minimum Concentration				0	0	0	0
Maximum Concentration				0	0	0	0
HWAD - GW Action Level				365	0.099	0.099	0
HWAD - GW Action Level Hits				0	0	0	0
Notes:							
NA - not analyzed							
NE - not established							

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

**UNIFORM HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. **MV1210090006999017** Manifest Document No. **1** 2. Page 1 **1** of **1** Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address:
AMERICAN AMMUNITION DEPOT
HIGHWAY 95 NORTH, HANTHORPE, NY 14415
715 945-1587

4. Generator's Phone No.

5. Transporter 1 Company Name:

SAFETY-KLEEN (NY), INC.

6. US EPA ID Number

SCD987574647

7. Transporter 2 Company Name

SAFETY-KLEEN (CA), INC.

8. US EPA ID Number

CAD059494310

9. Generator's Facility Name and Address

SAFETY-KLEEN (CA), INC.

1021 NEPTUNE

SAN JOSE, CA 95133

10. US EPA ID Number

CAD059494310

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)

a. **HAZARDOUS WASTE LIQUID, NOS.
(LEAD, CHROMIUM), 9, NA3082, P6111**

12. Containers

No. Type

13. Total Quantity

14. Unit Wt/Vol

Wt/Volume

Shpt. 171491

Days 005006

Unit 181

EPA/DOE

Shpt. 005006

Days 005006

Unit 005006

EPA/DOE

b. **HAZARDOUS WASTE SOLID, NOS.
(LEAD, CHROMIUM), 9, NA3077, P6111**

Shpt. 005006

Days 005006

Unit 005006

EPA/DOE

Shpt. 005006

Days 005006

Unit 005006

EPA/DOE

Additional Description for Materials Listed Above

Additional: **DO07 DO08**

EPA Waste: **DO07 DO08**

Code#: **00000**

Approvals: **SD-122070**
b-SM1-222070

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